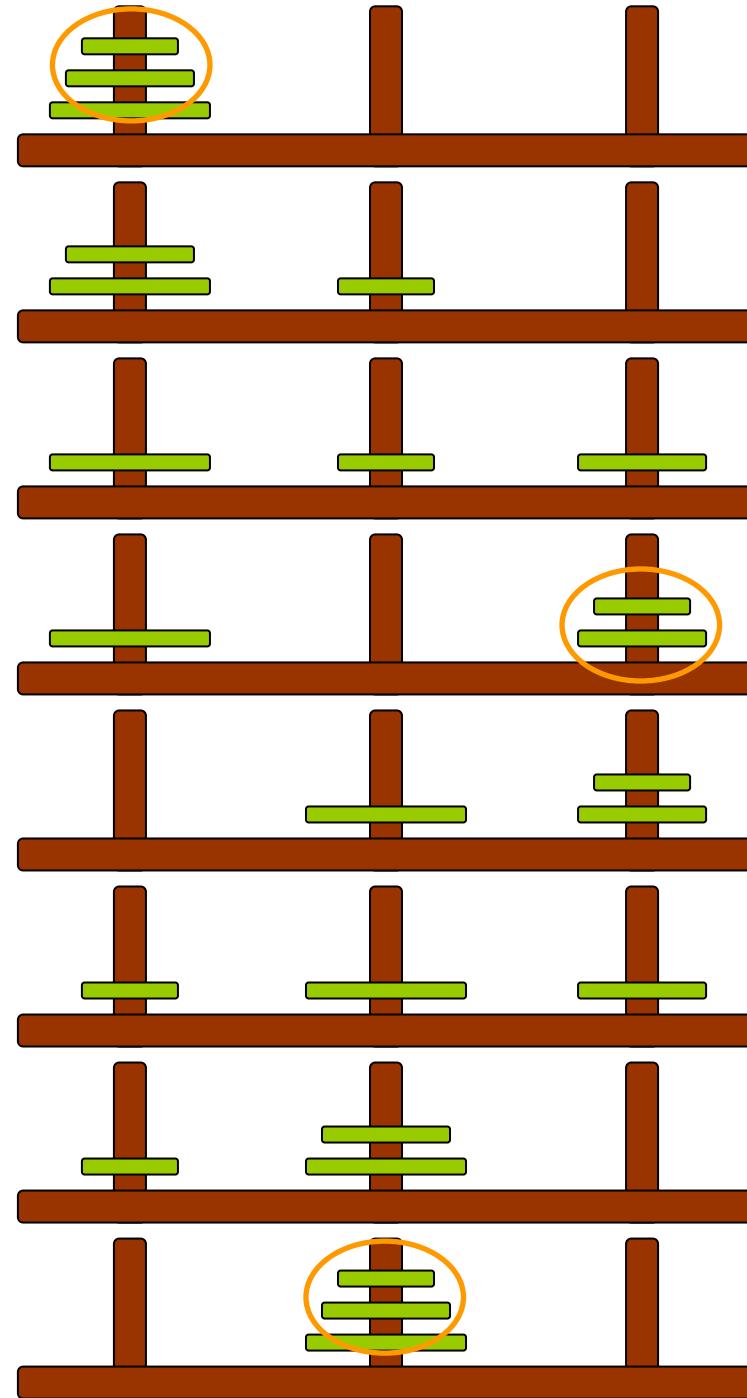


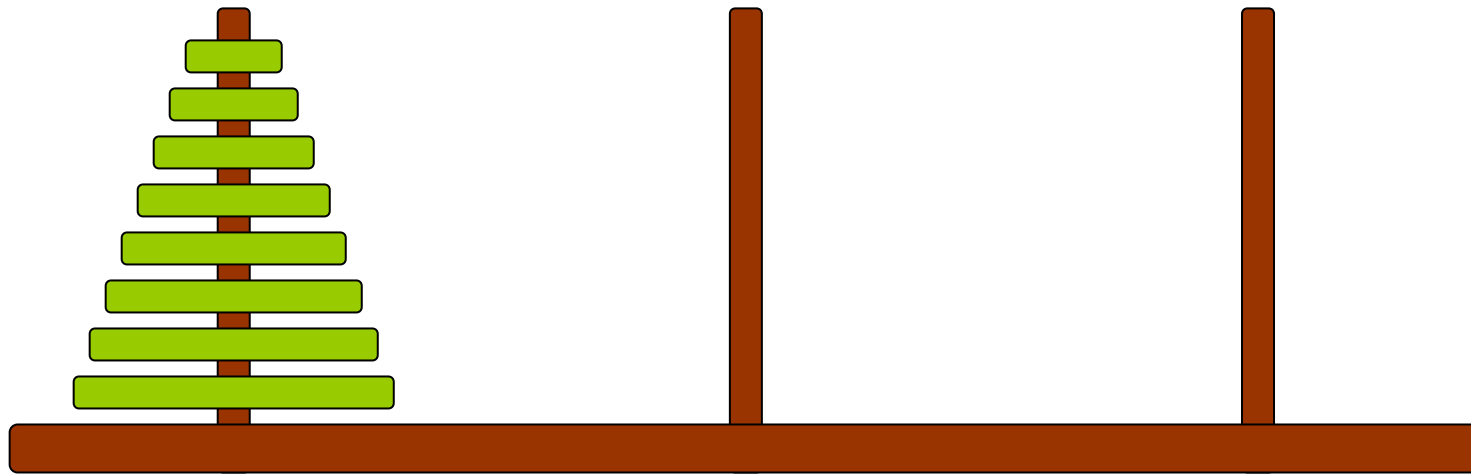
Atelier « tours de Hanoï » (récurrence et récursivité)

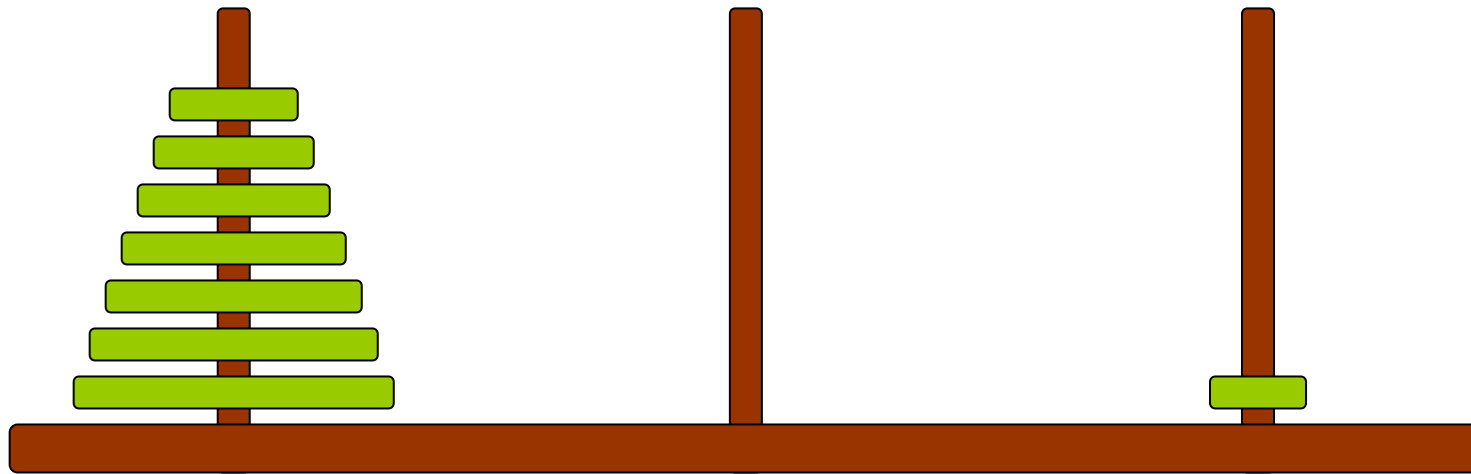
Renaud Sirdey

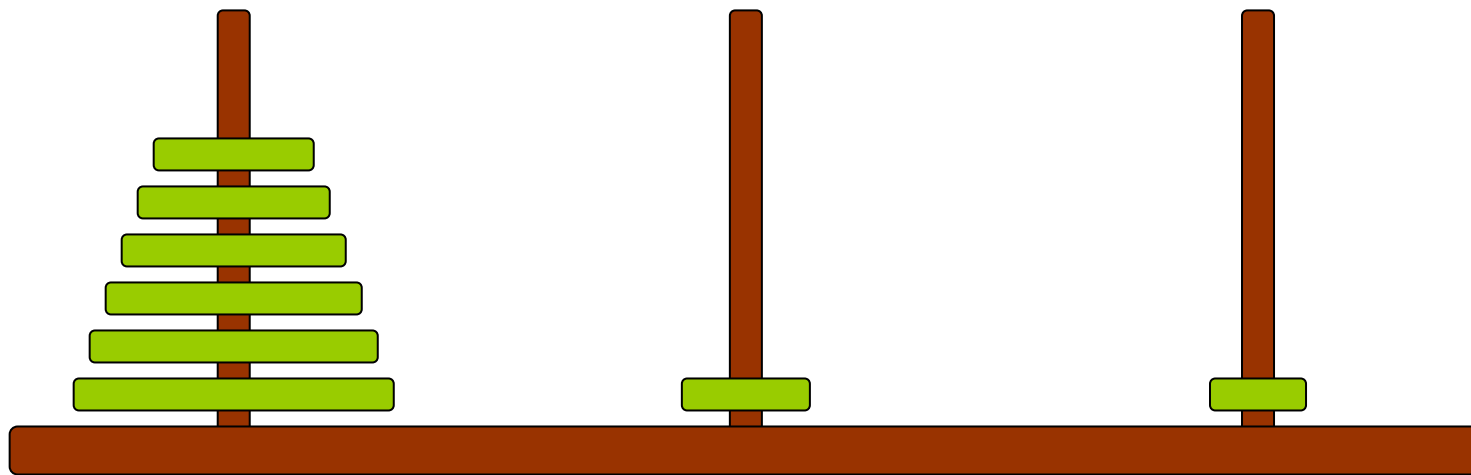
Mode d'emploi

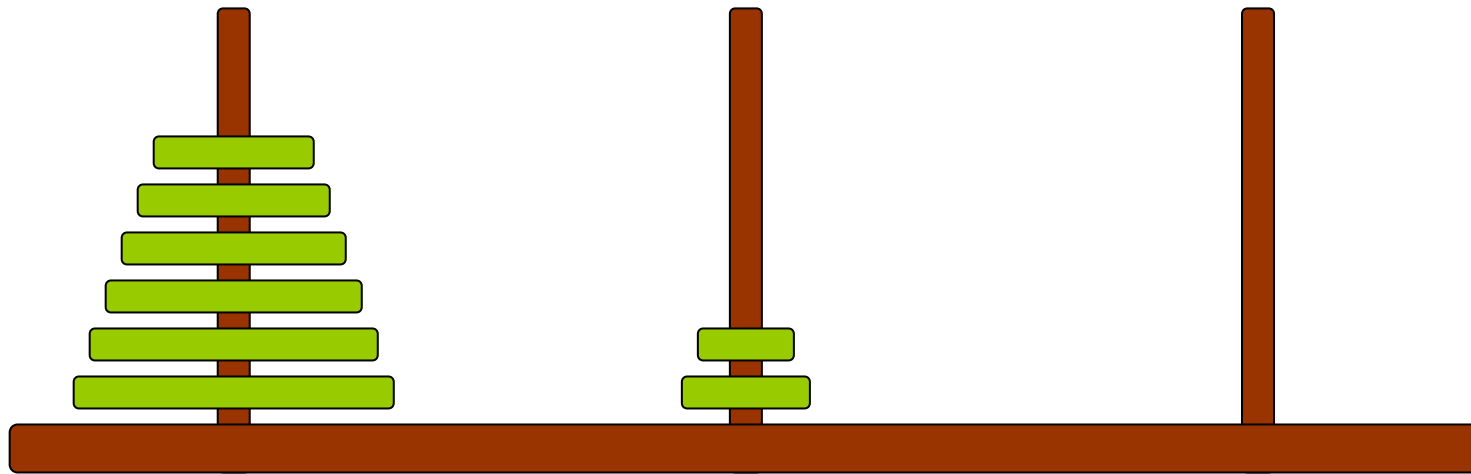
- Equipement :
 - Un jeu des tours de Hanoï assez grand.
- Par groupe de 6 ou 7 enfants :
 - Leur faire résoudre le problème avec deux disques (trivial).
 - Leur faire résoudre le problème avec trois disques.
 - En déplaçant donc deux fois la tour à deux disques (cf. ci-contre).
 - Et c'est parti !

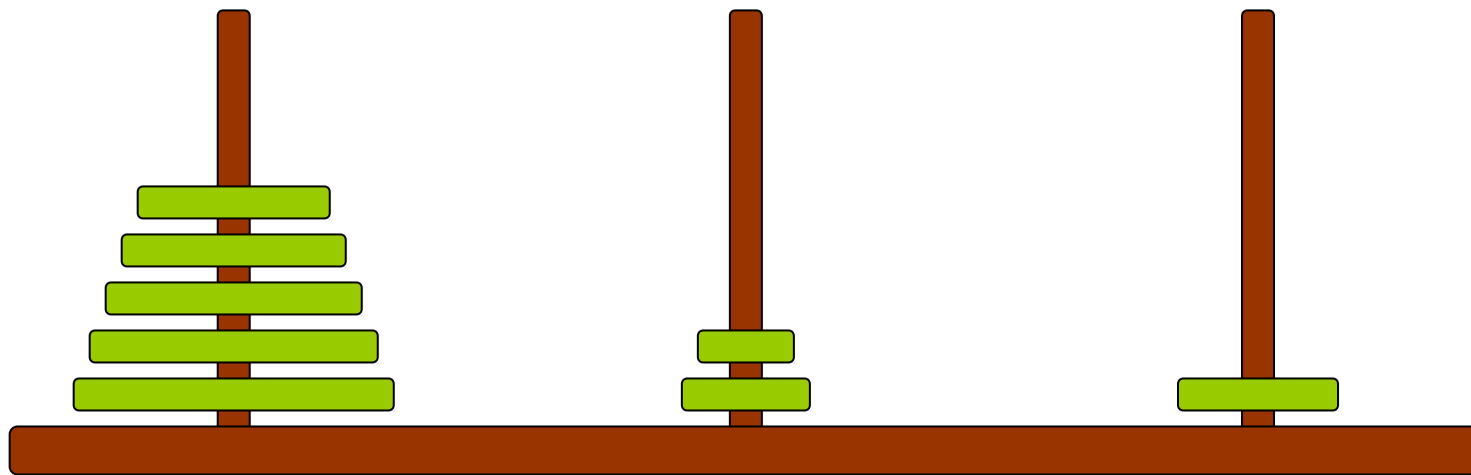


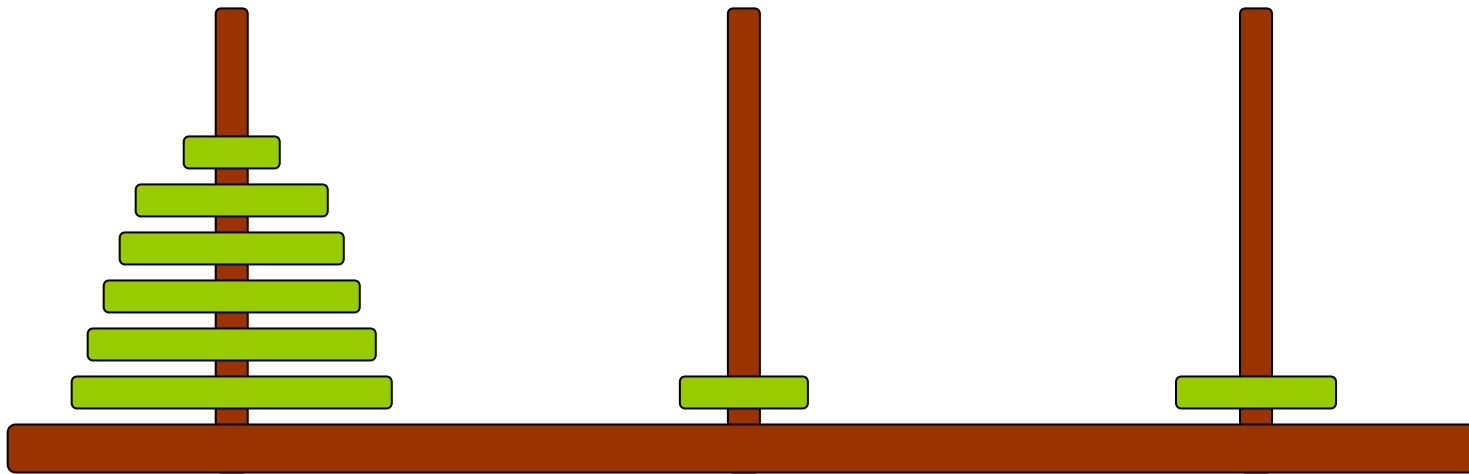


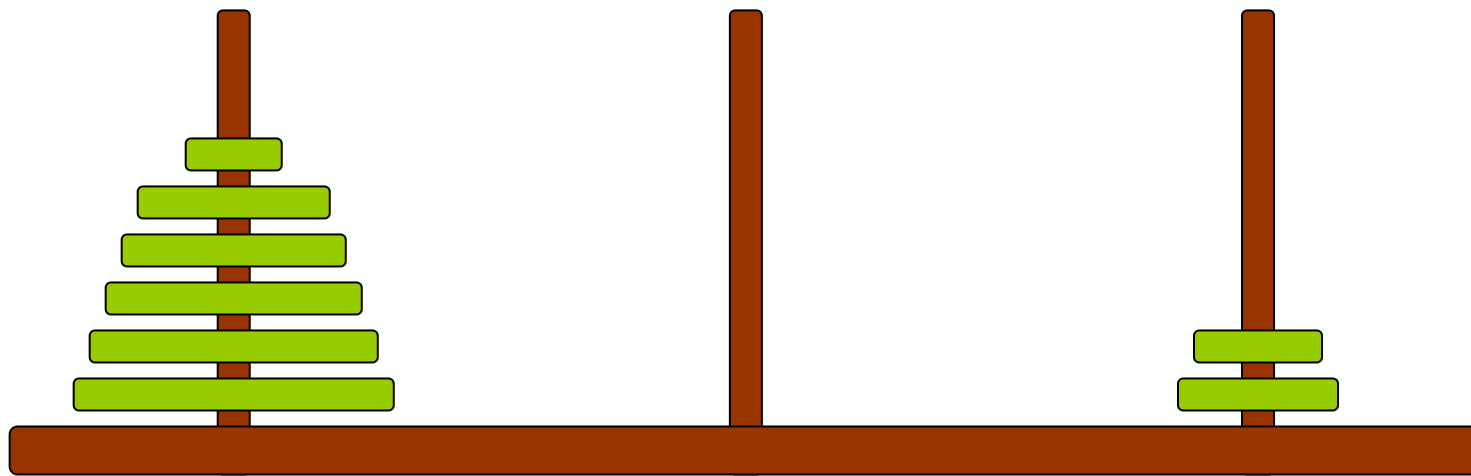


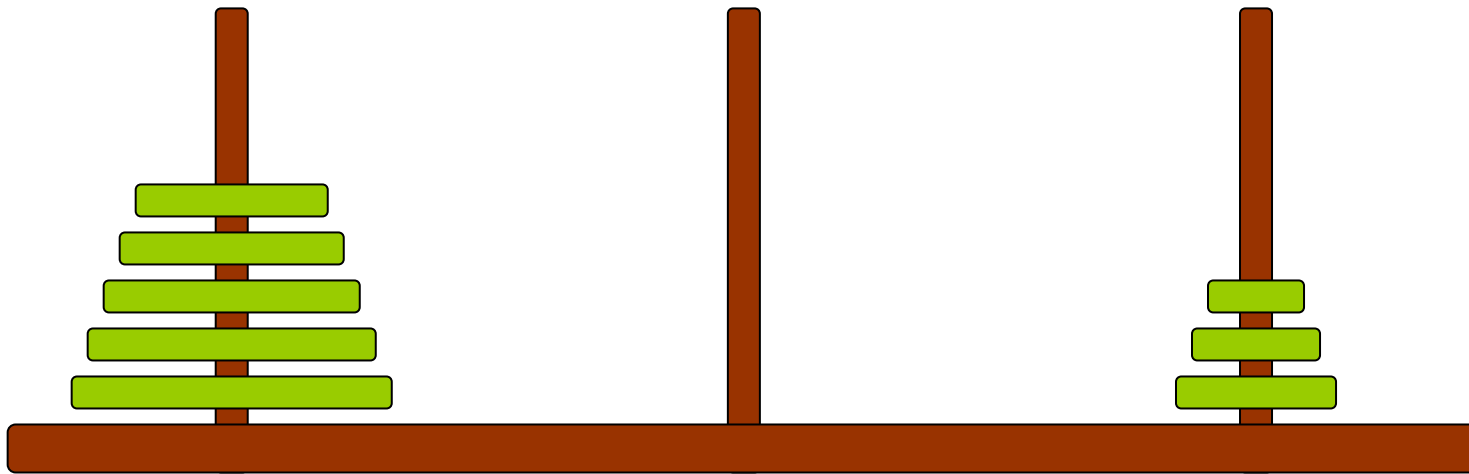


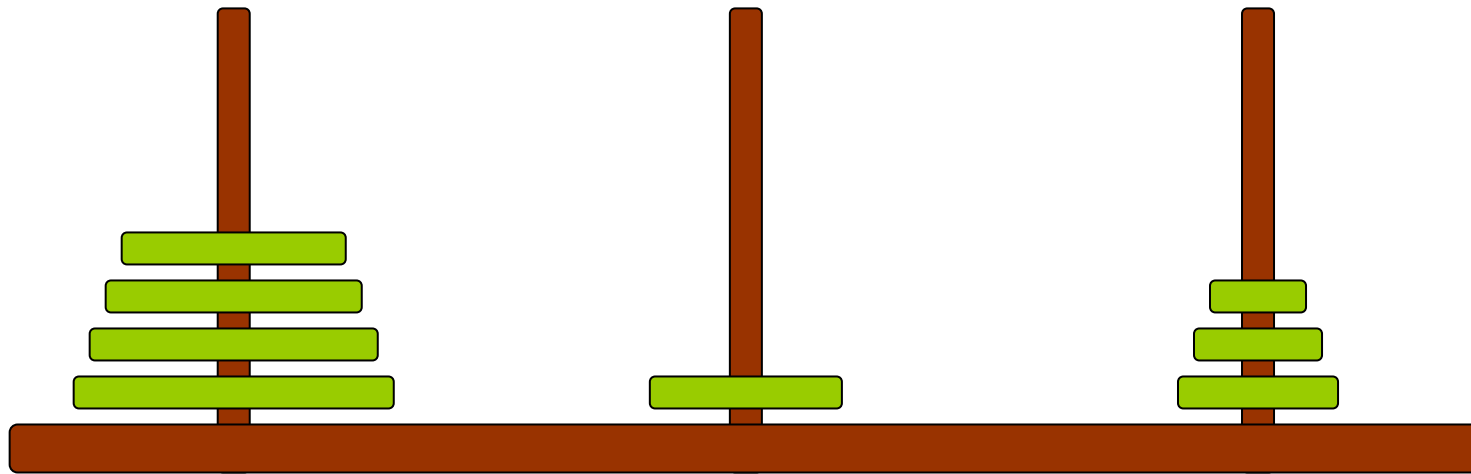


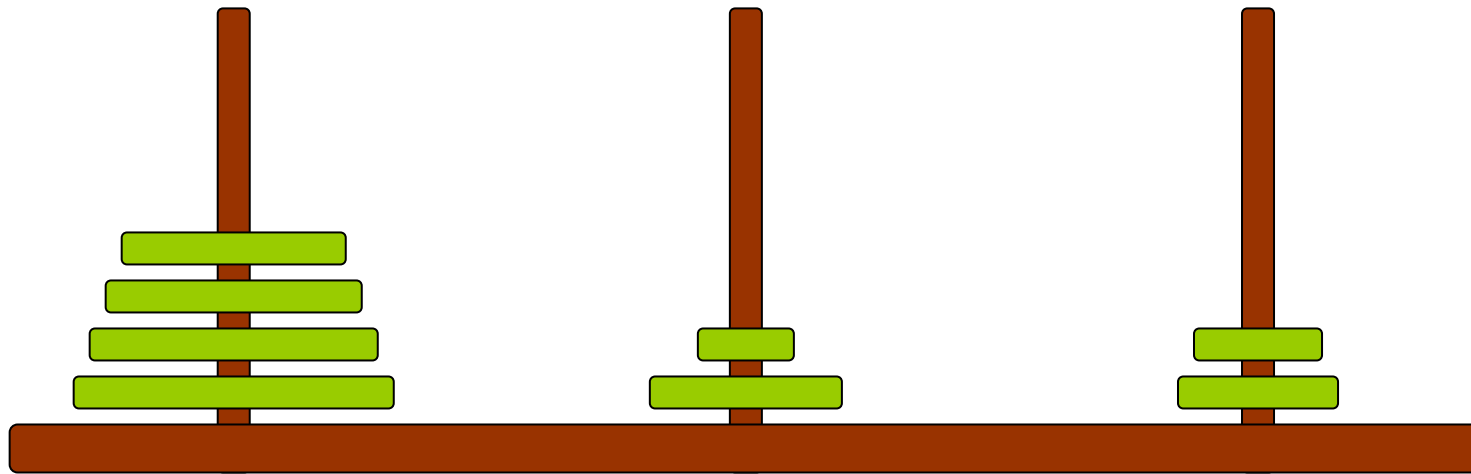


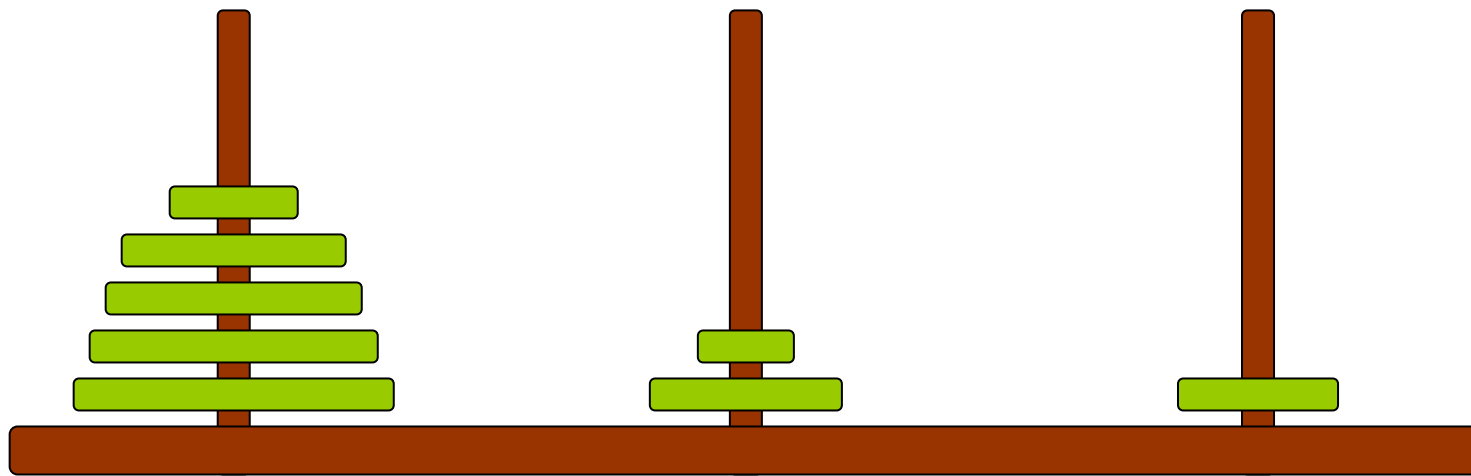


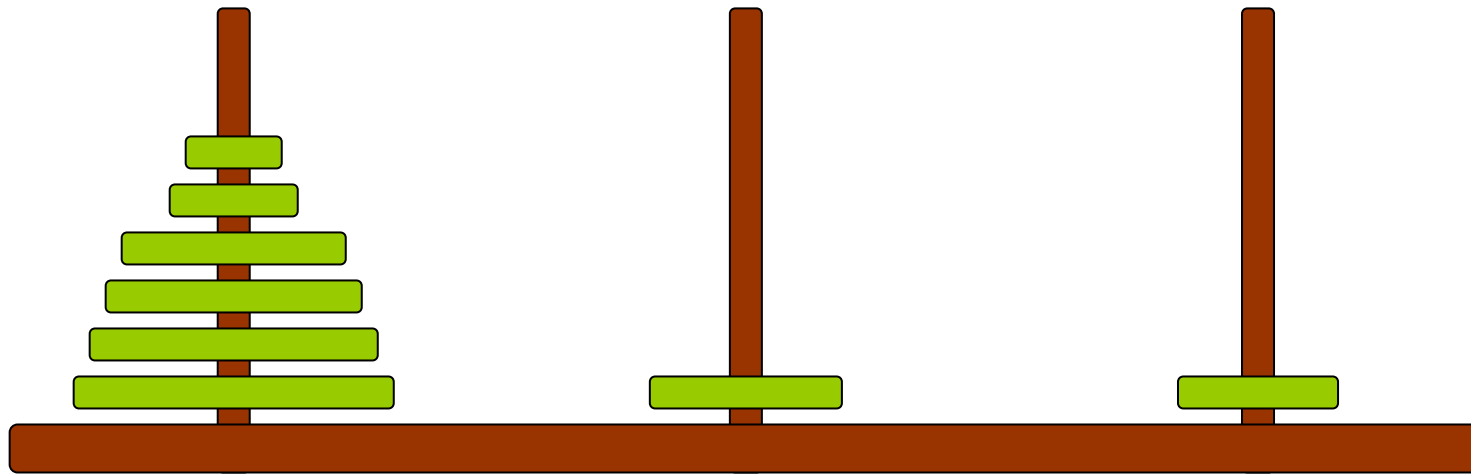


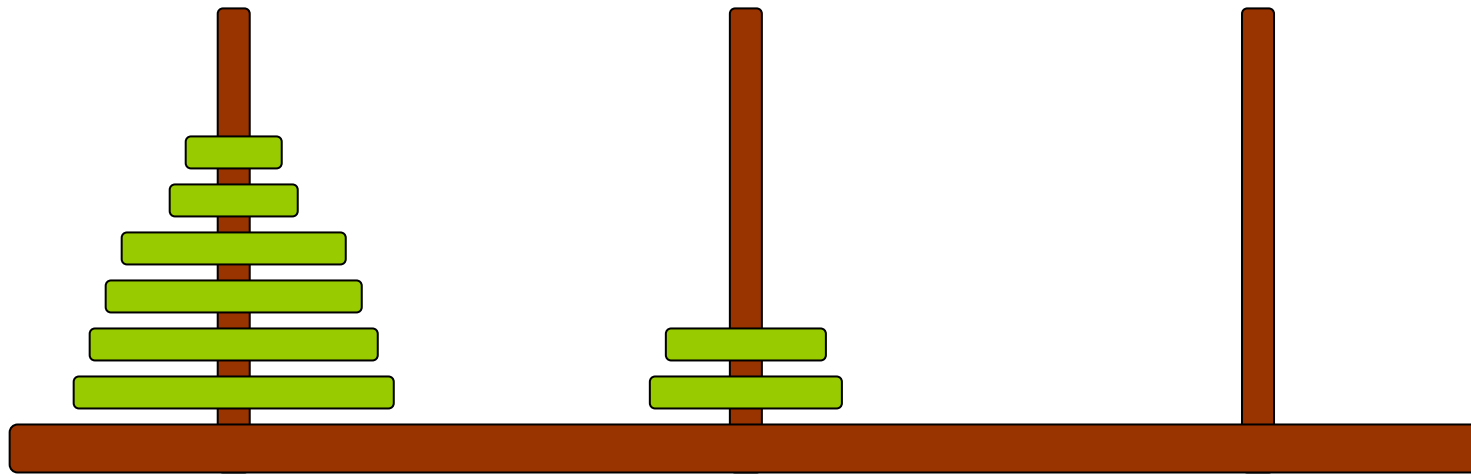


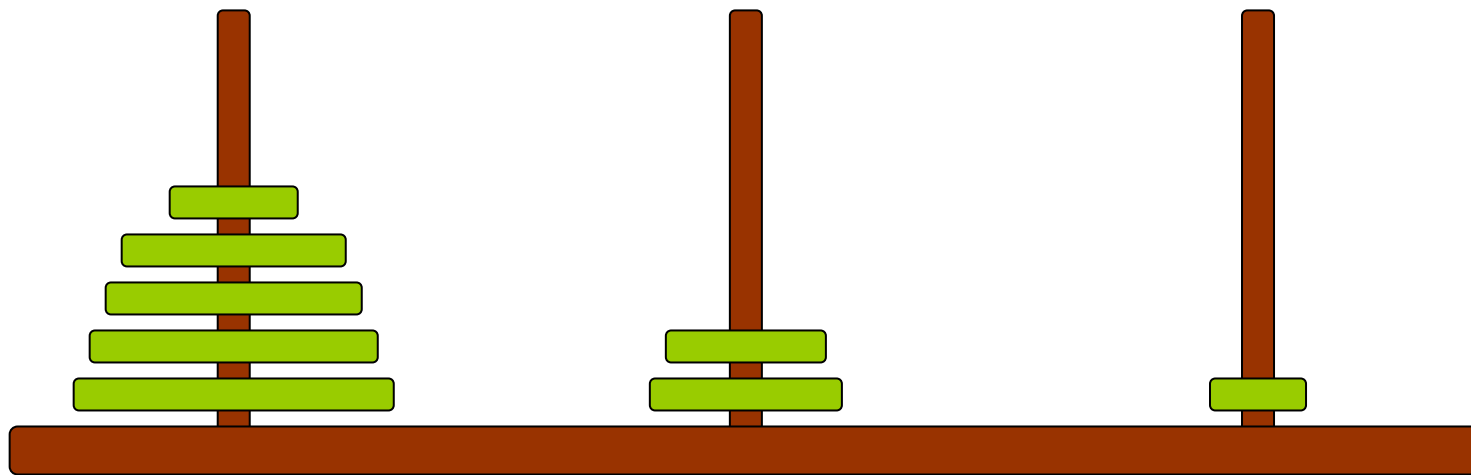


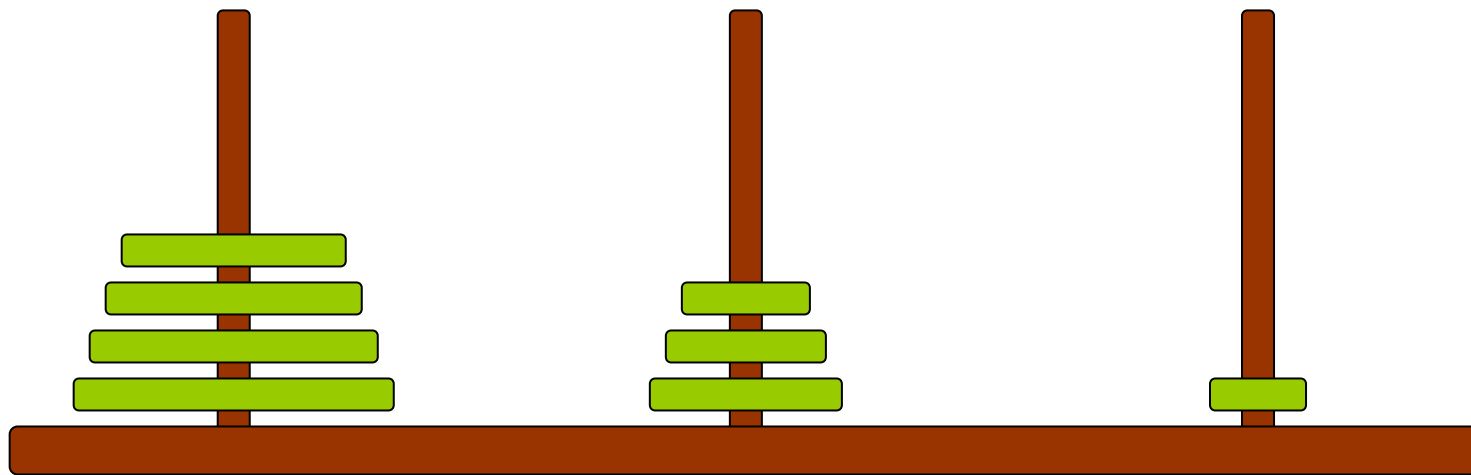


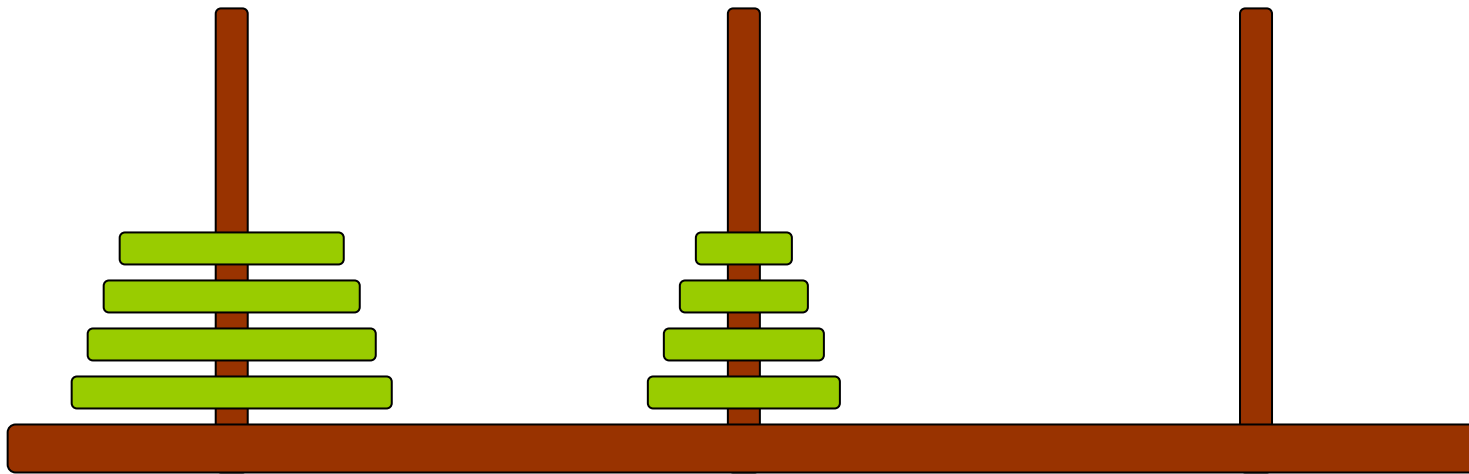


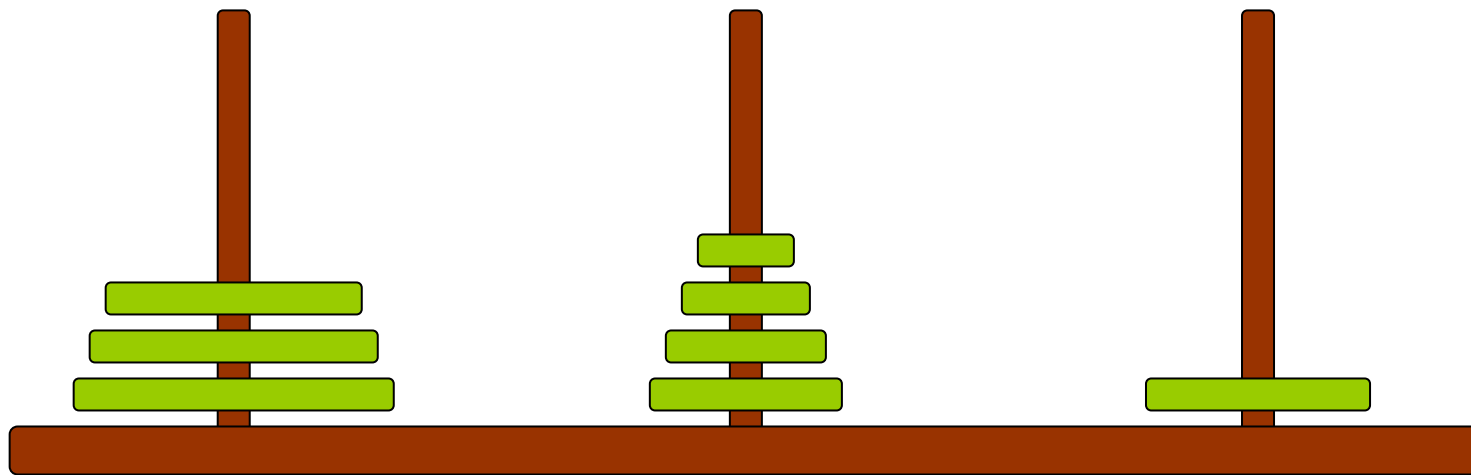


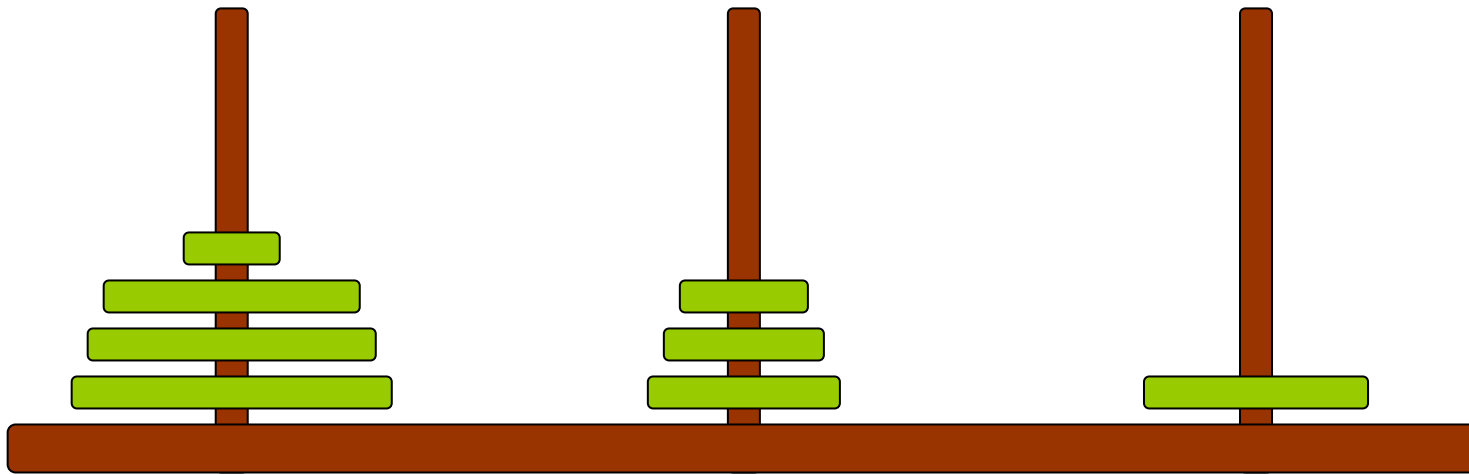


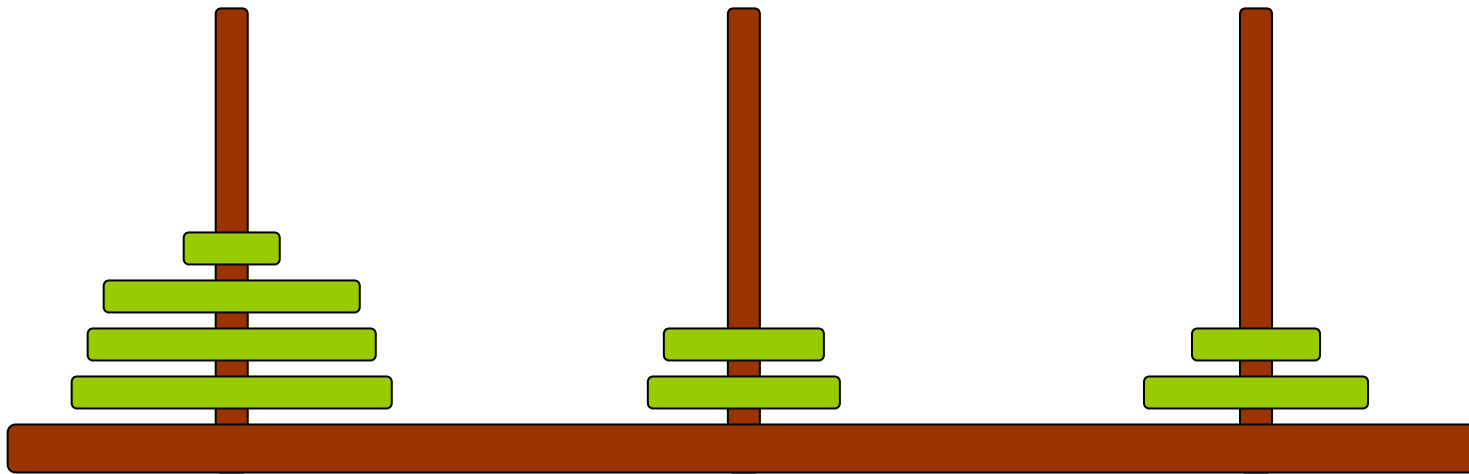


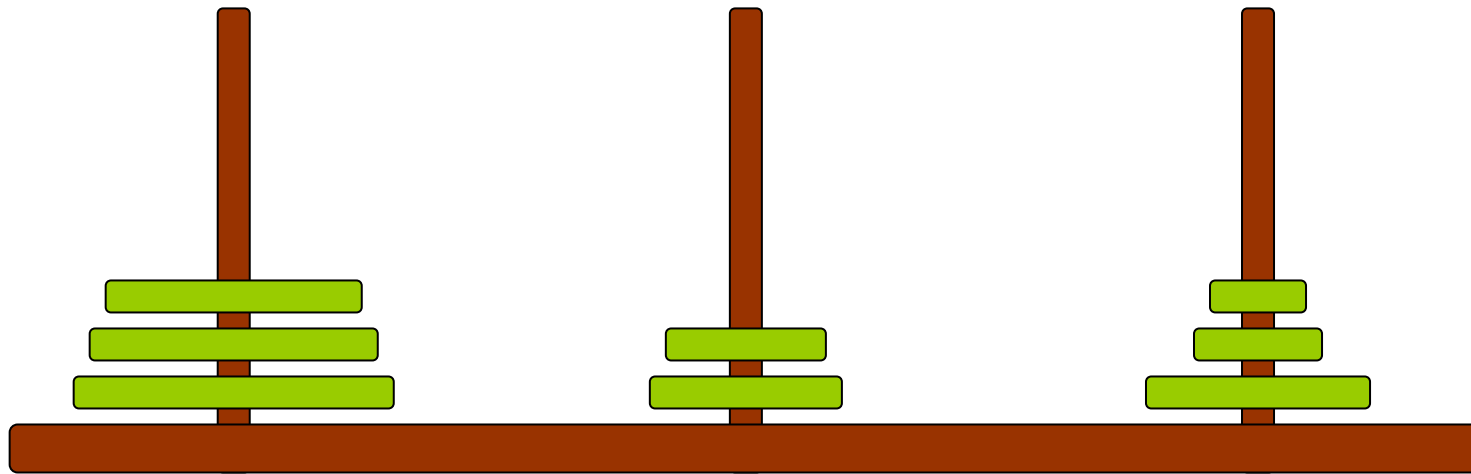


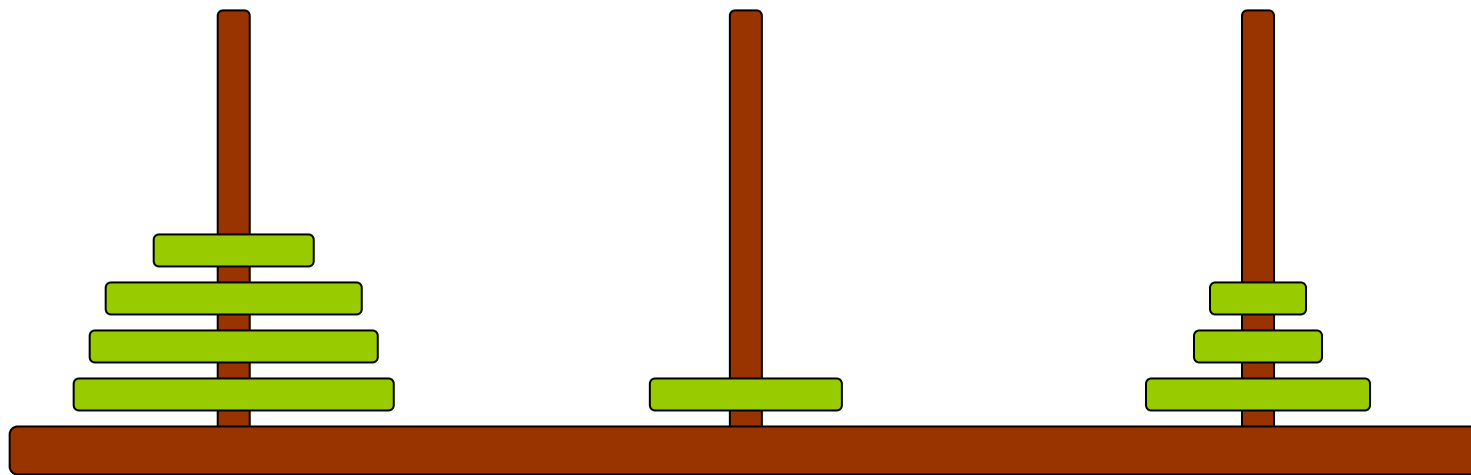


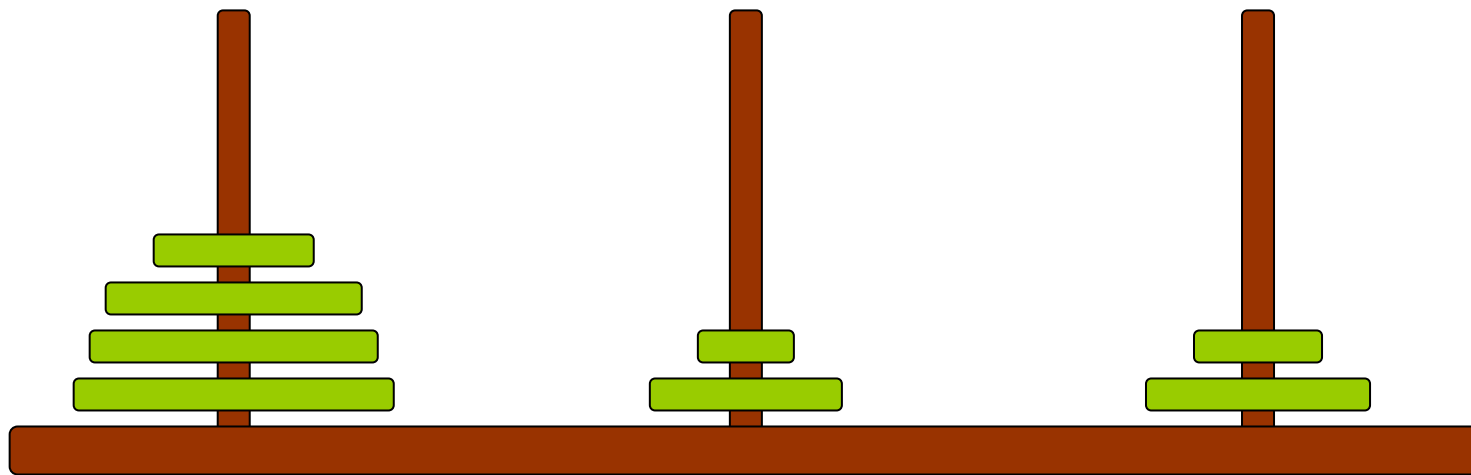


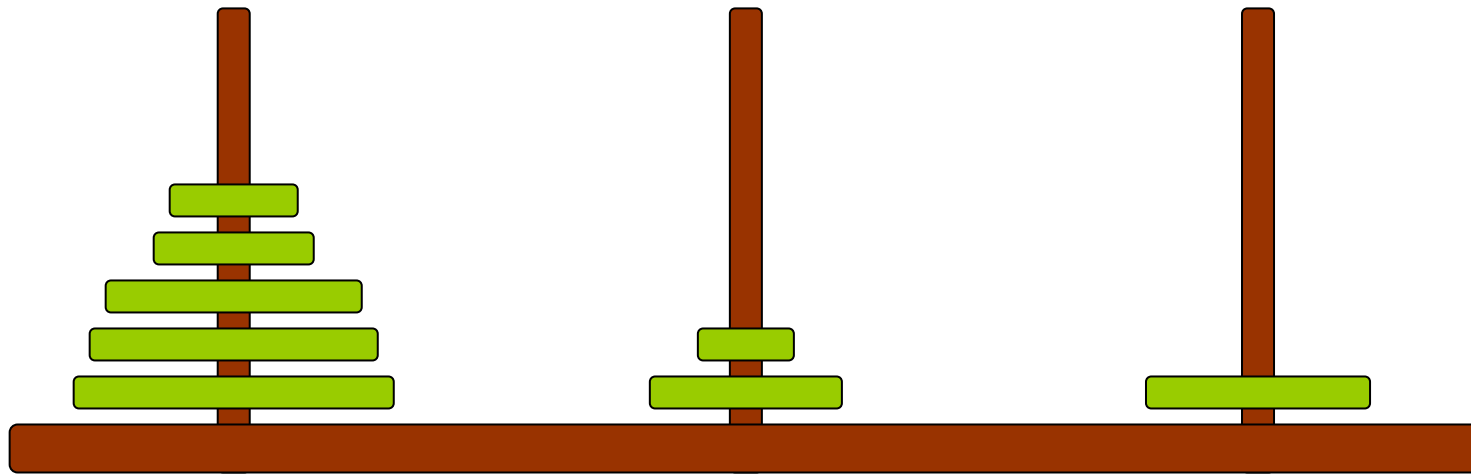


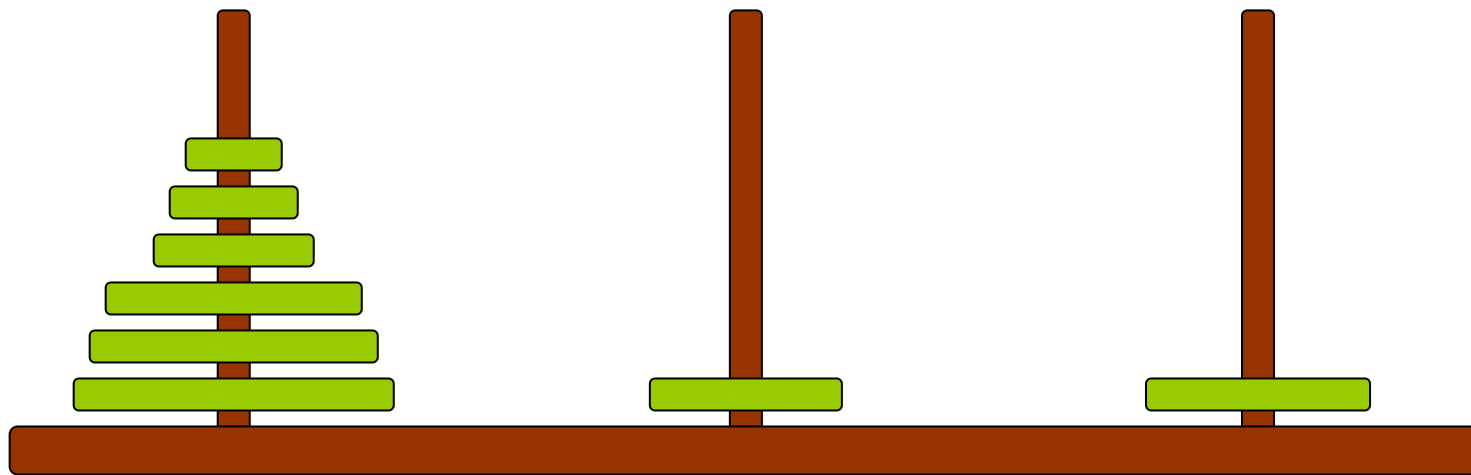


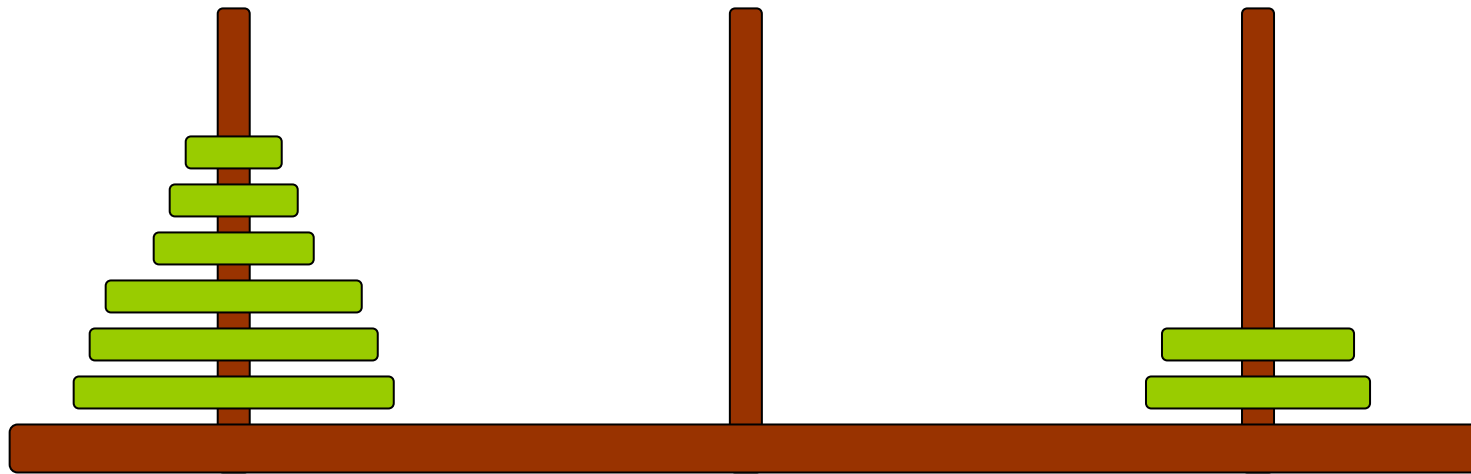


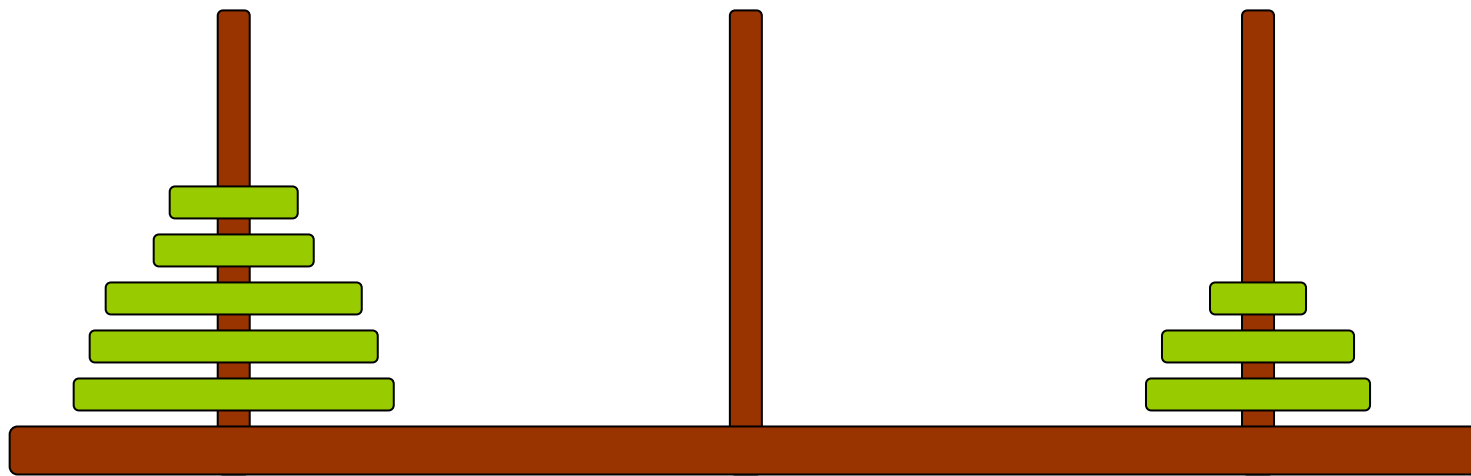


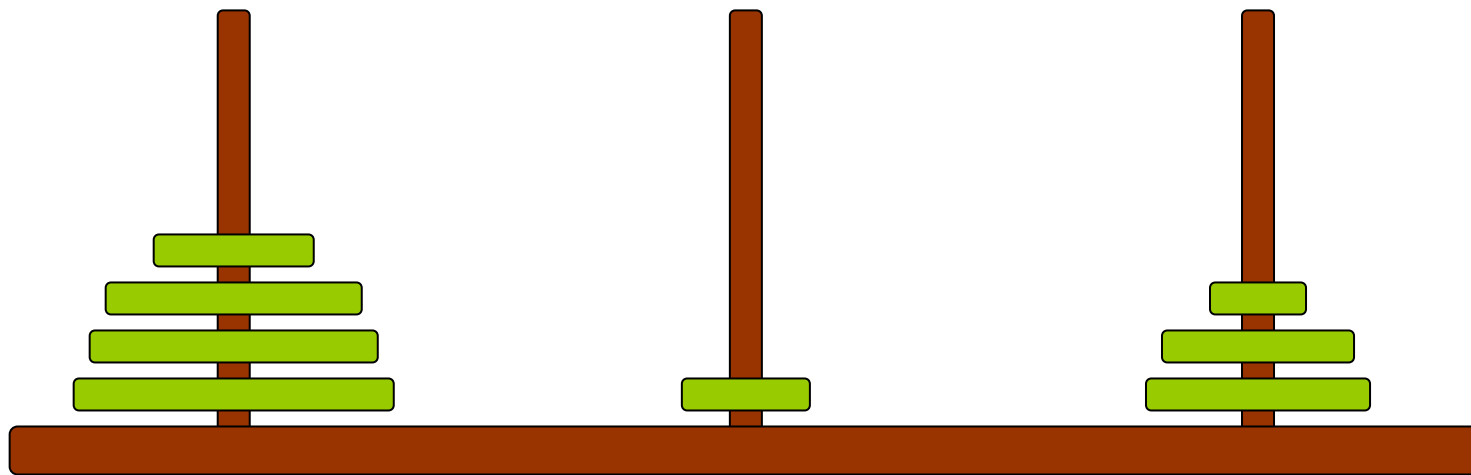


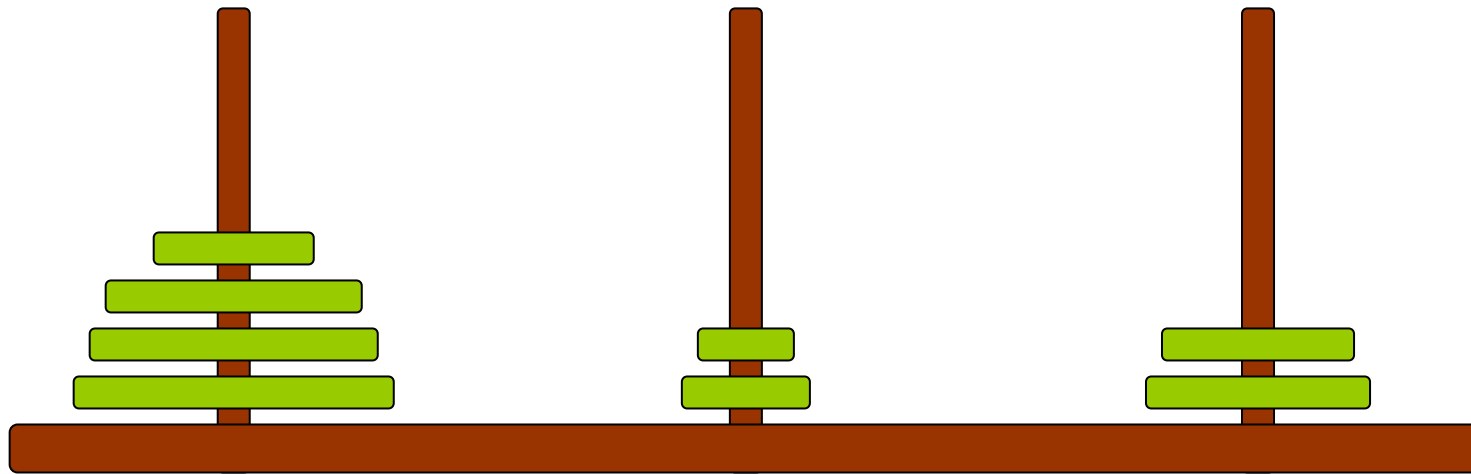


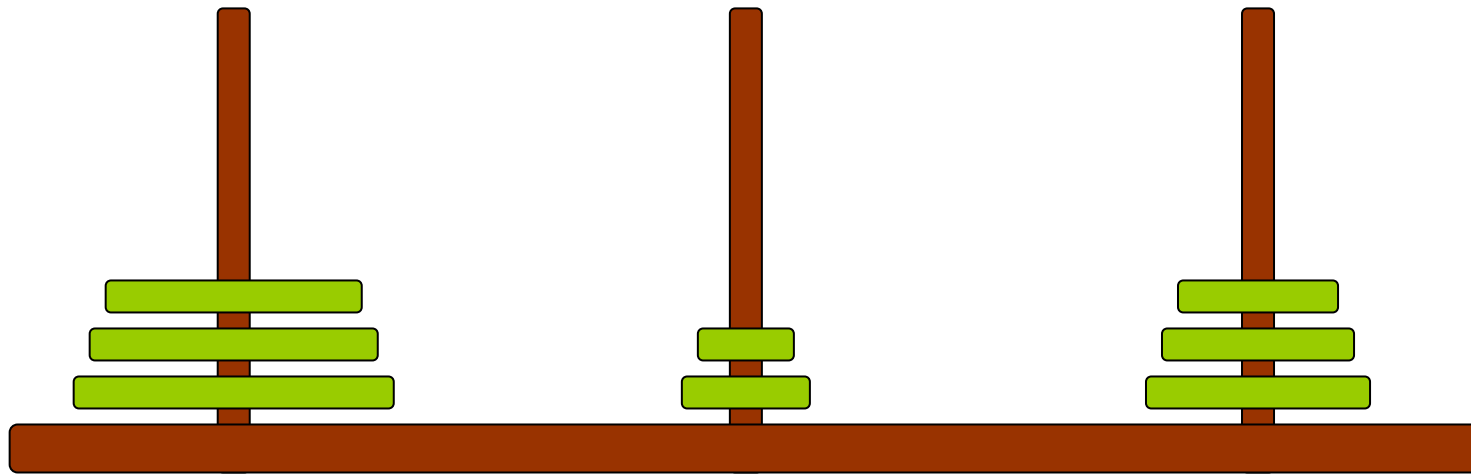


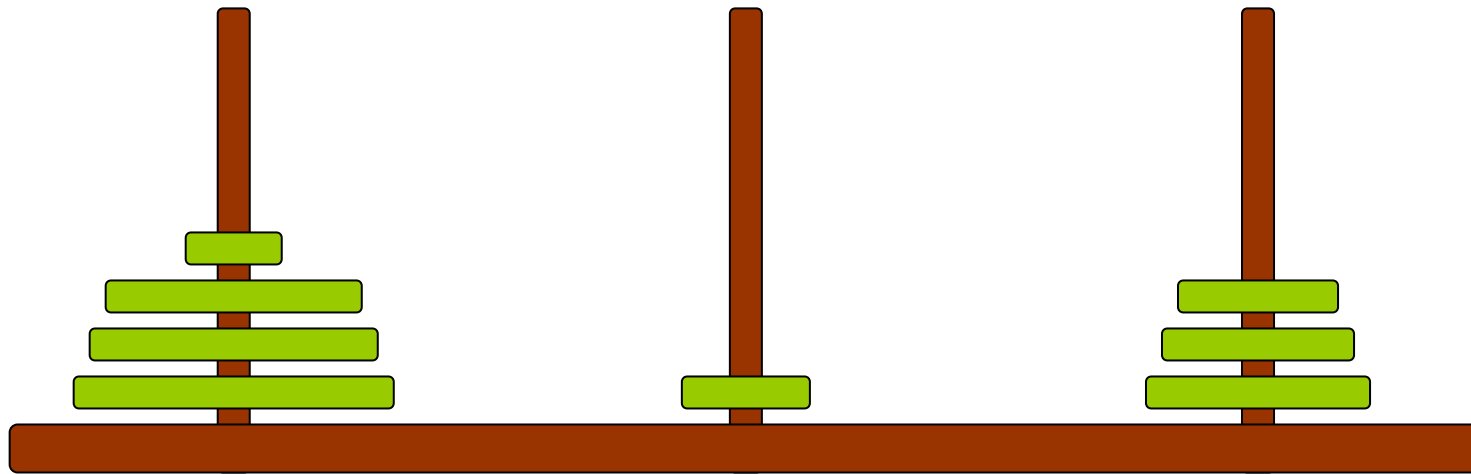


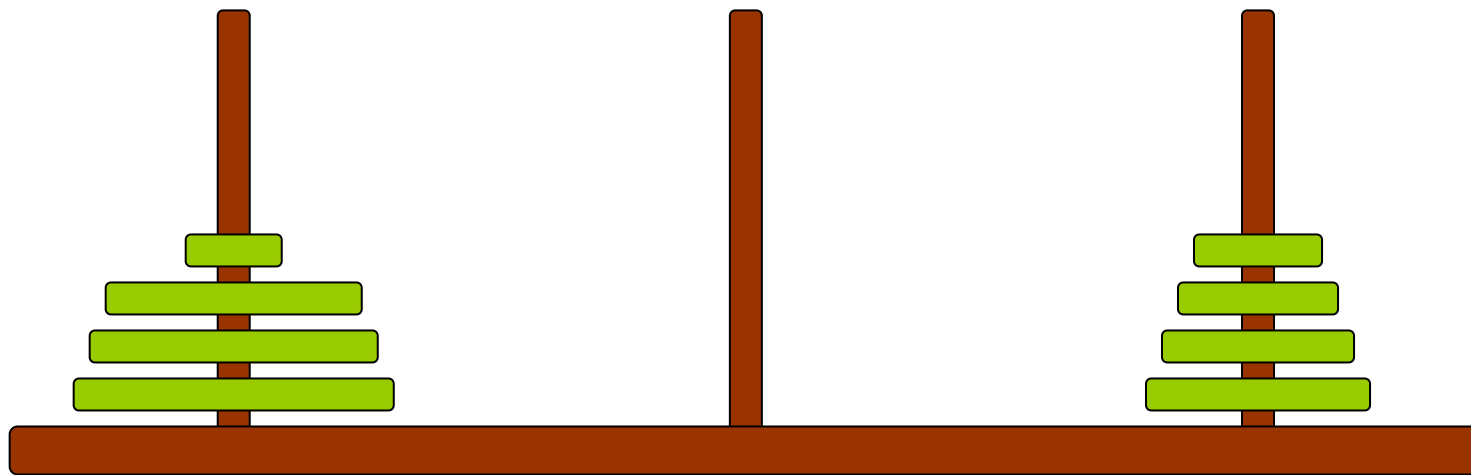


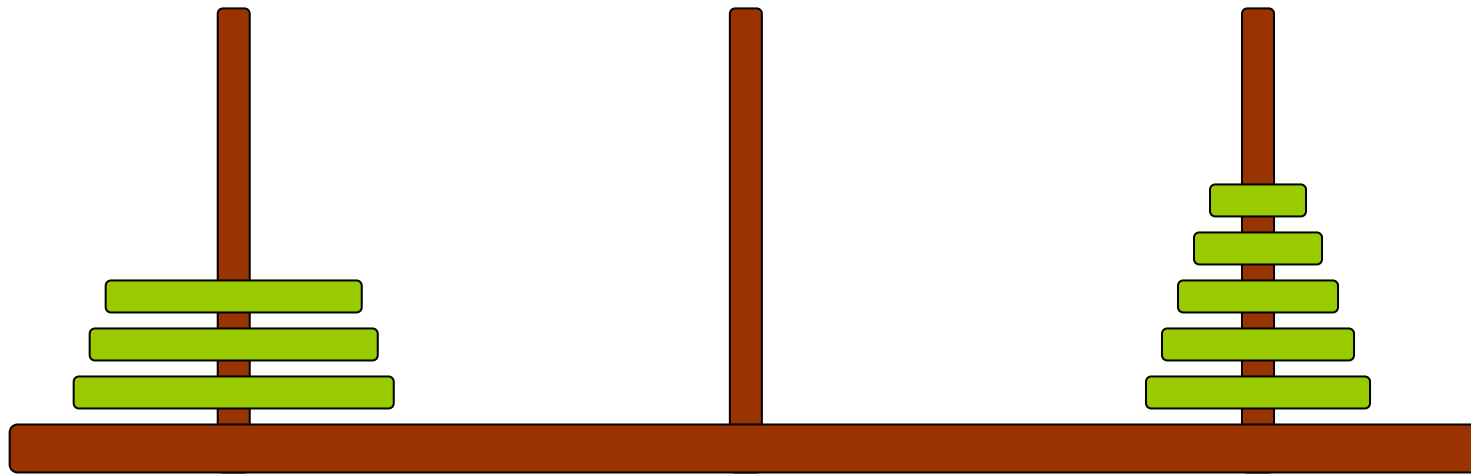


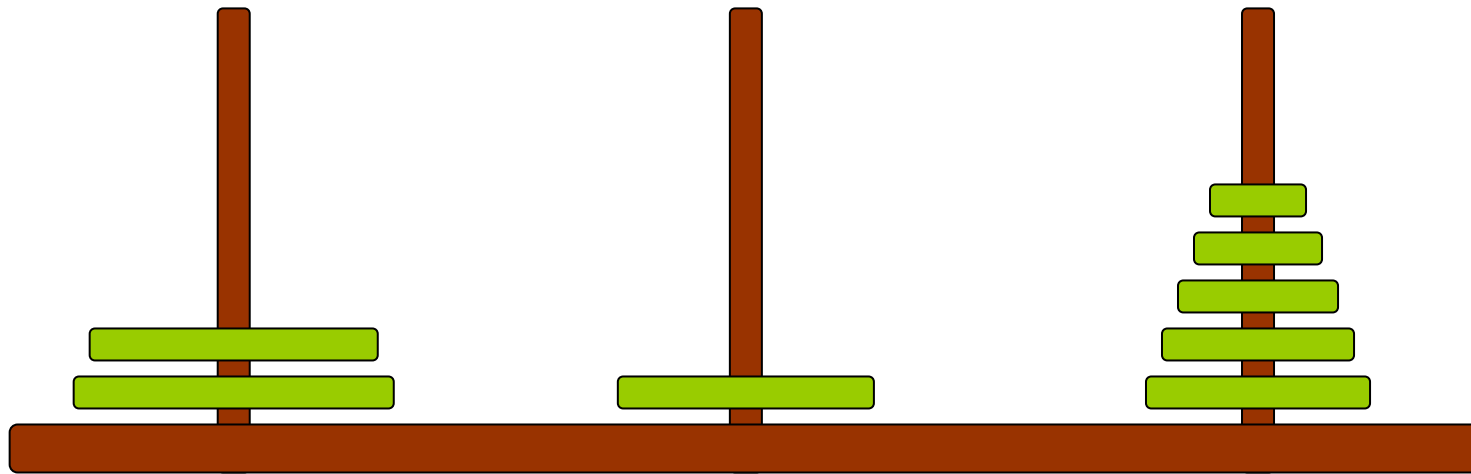


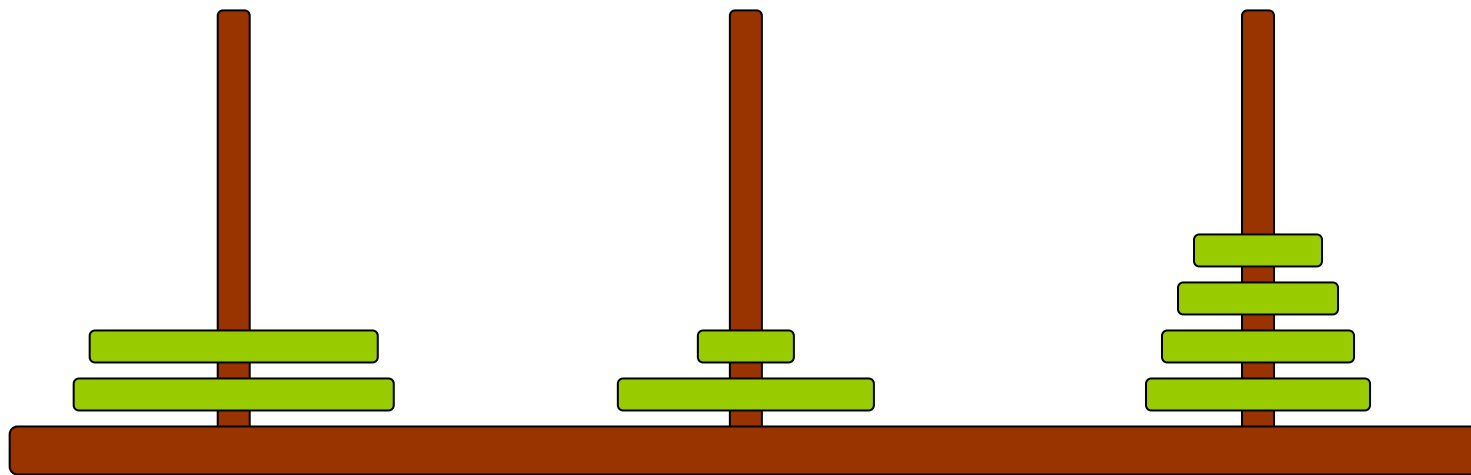


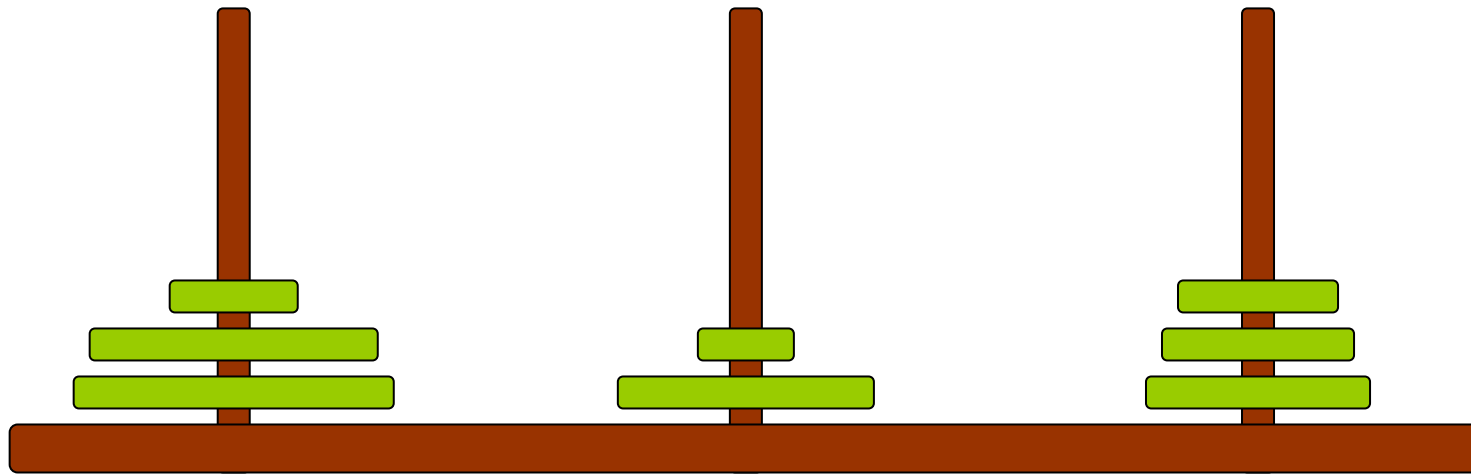


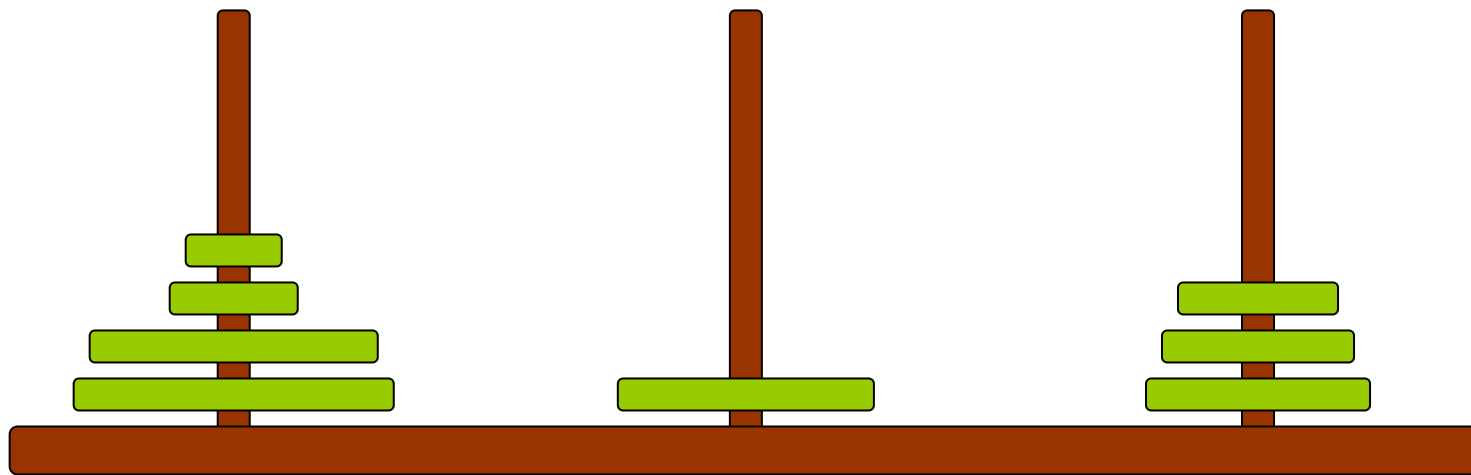


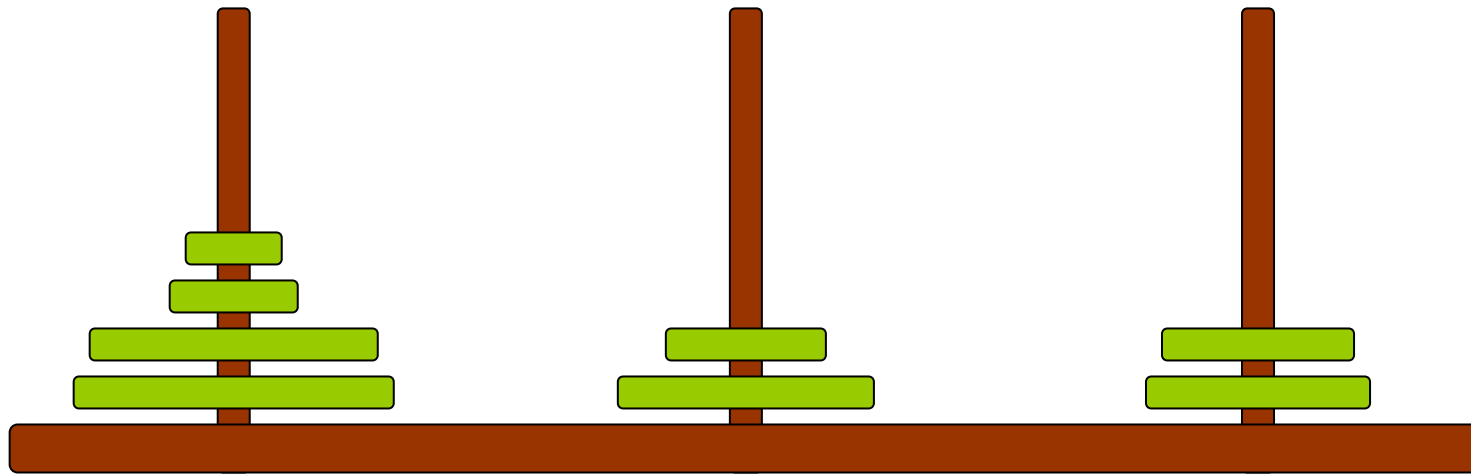


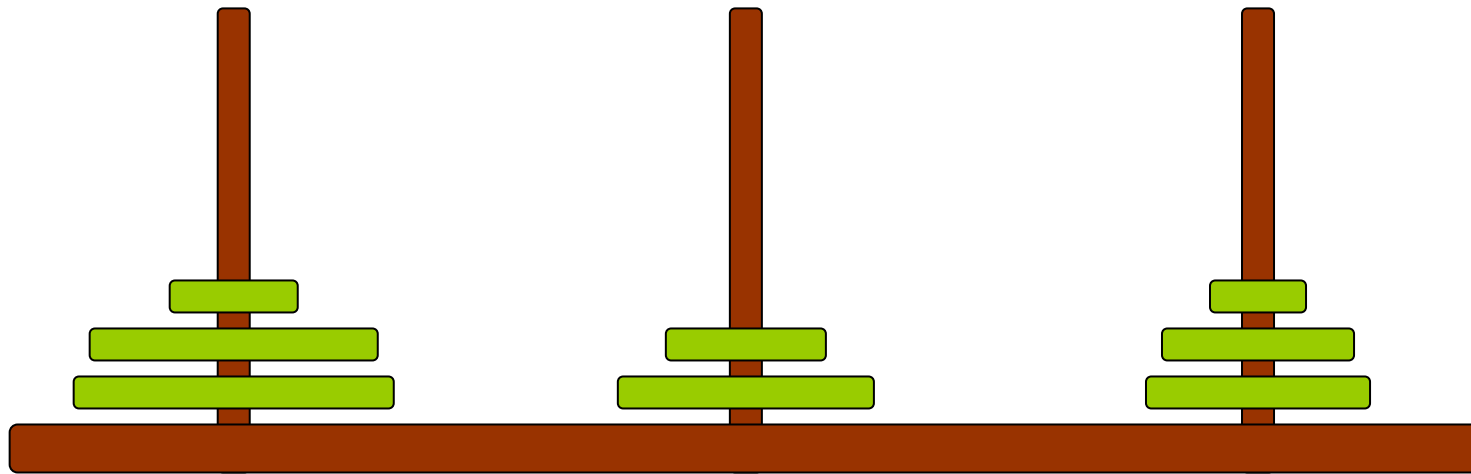


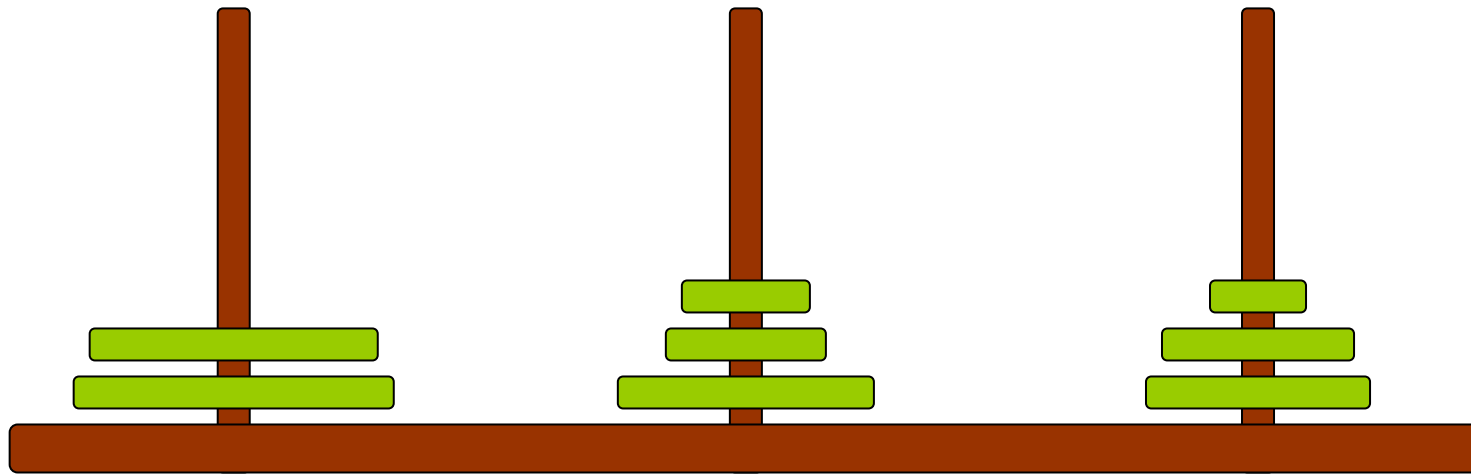


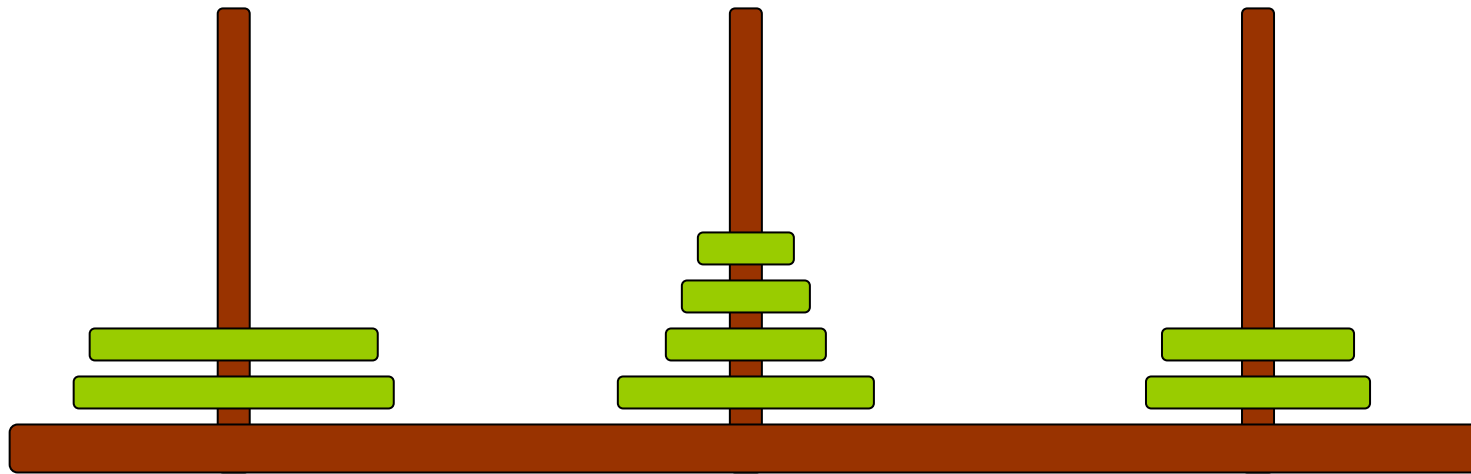


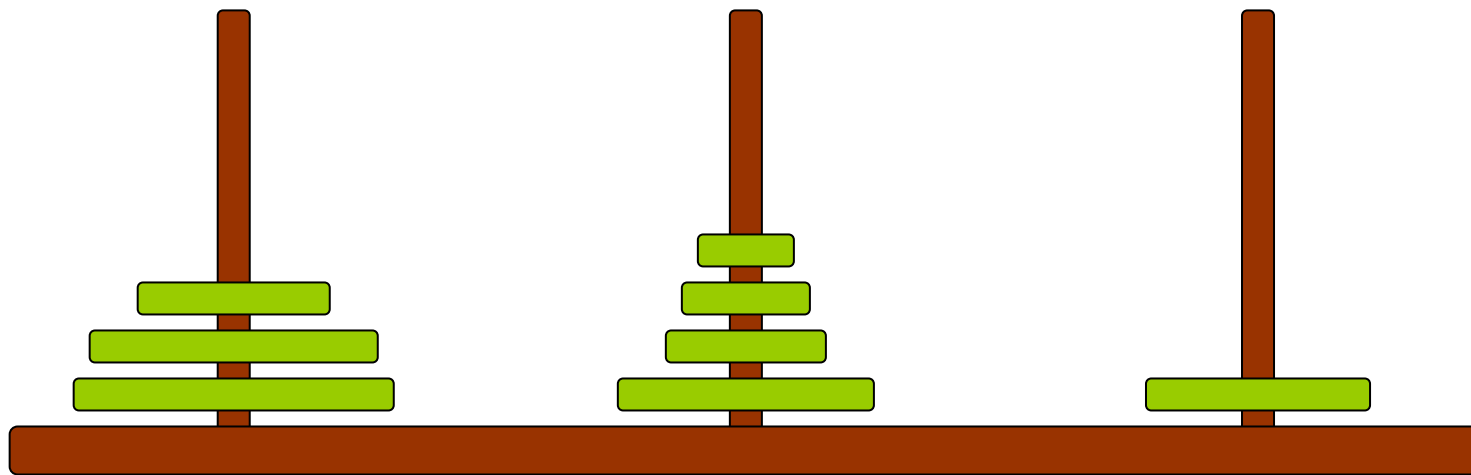


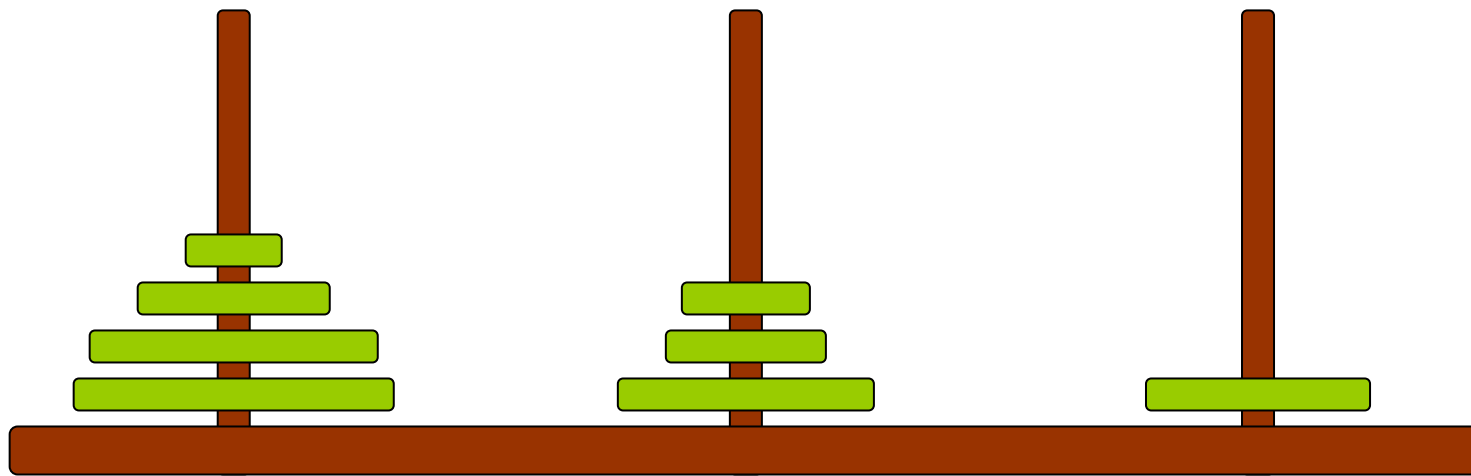


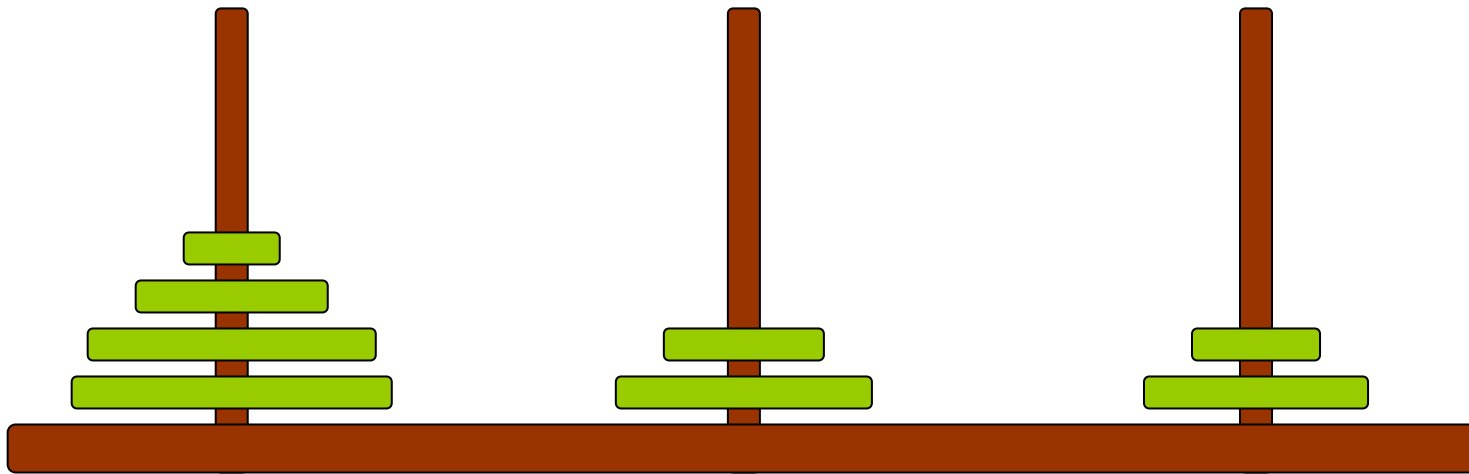


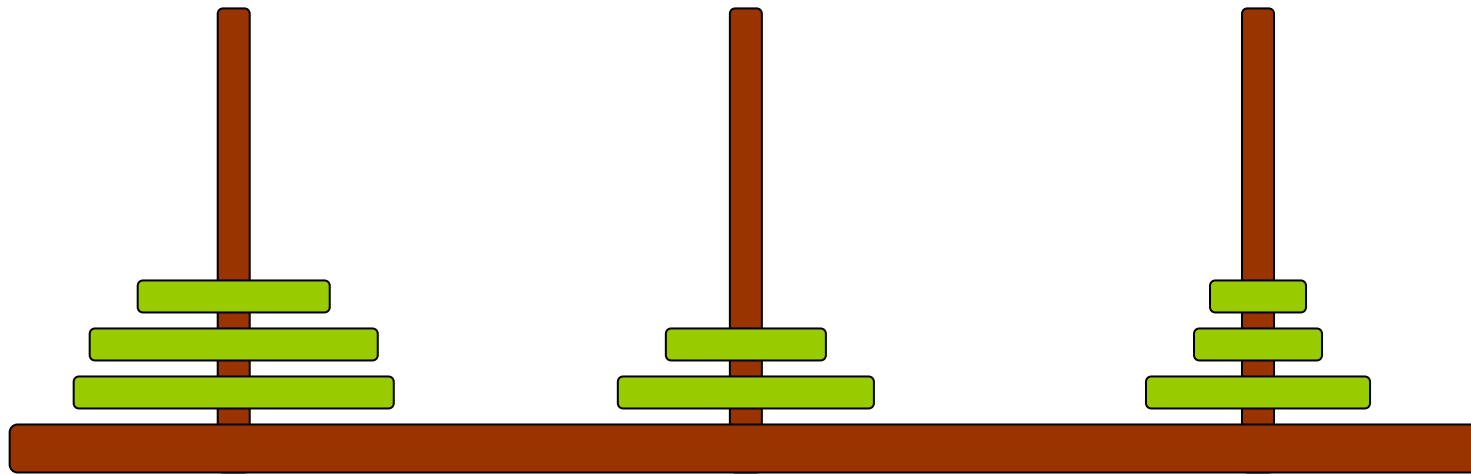


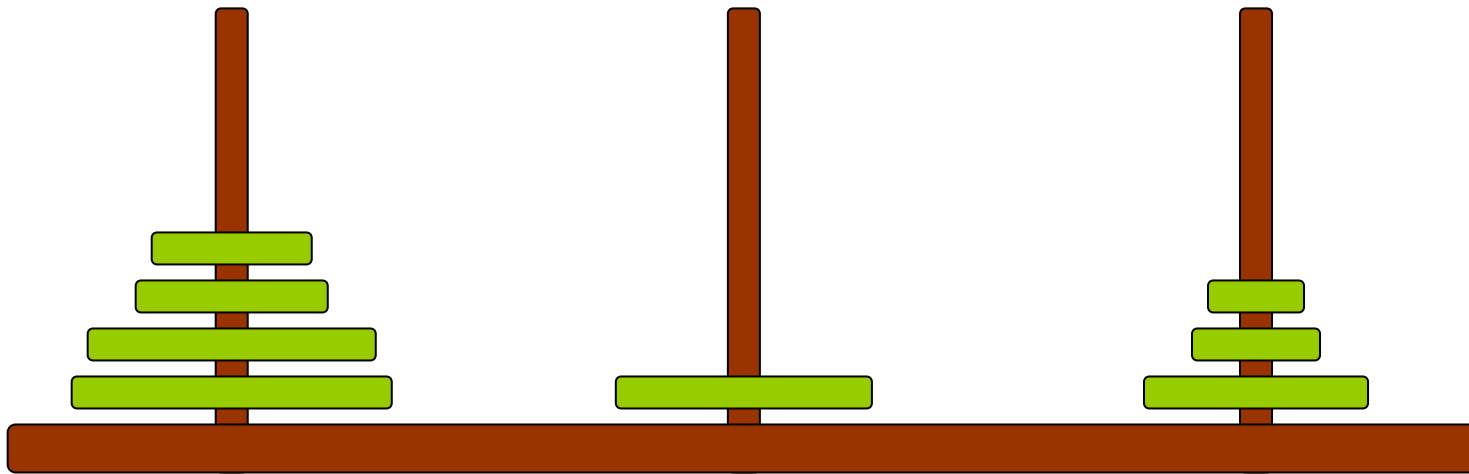


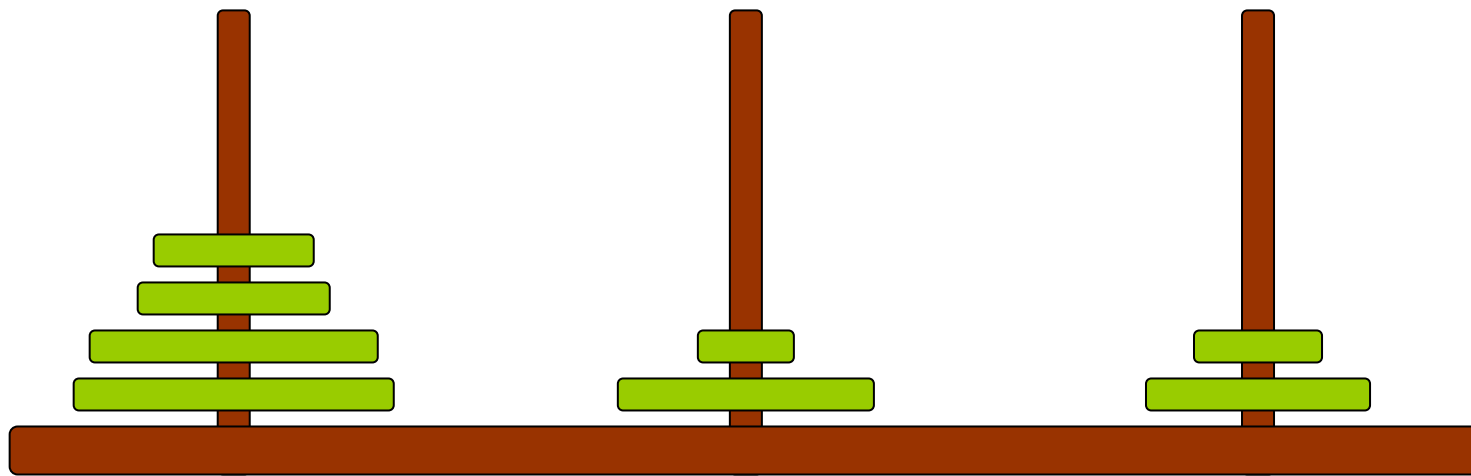


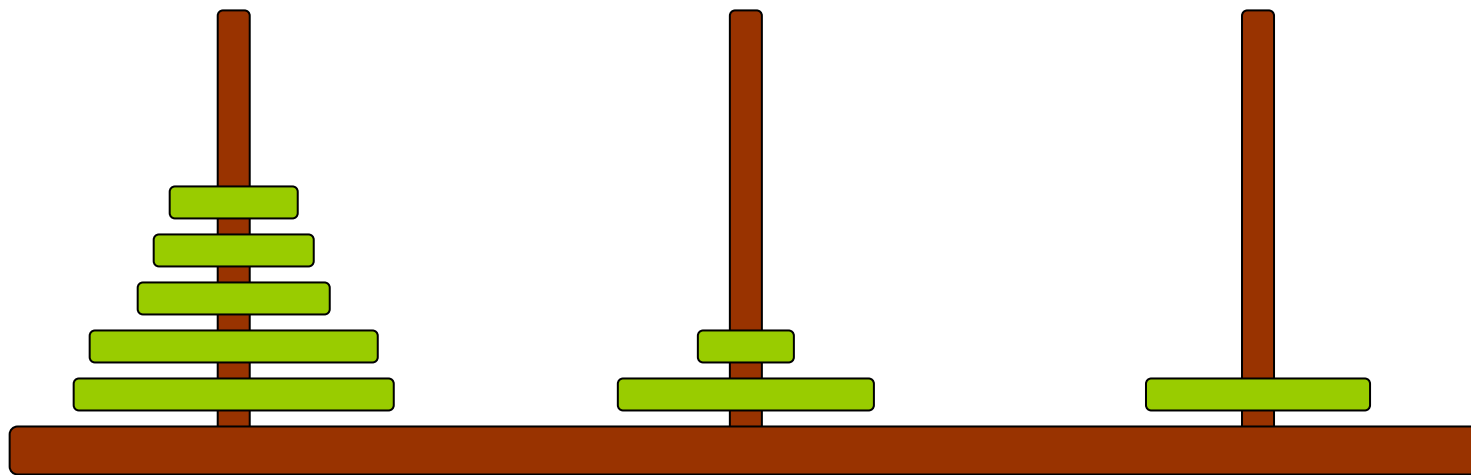


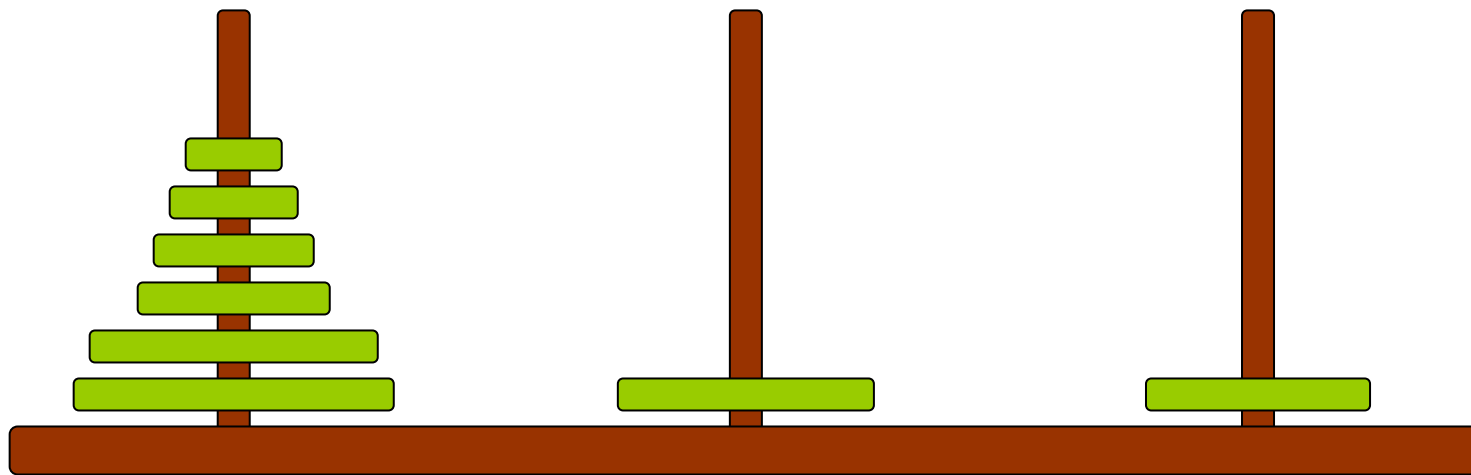


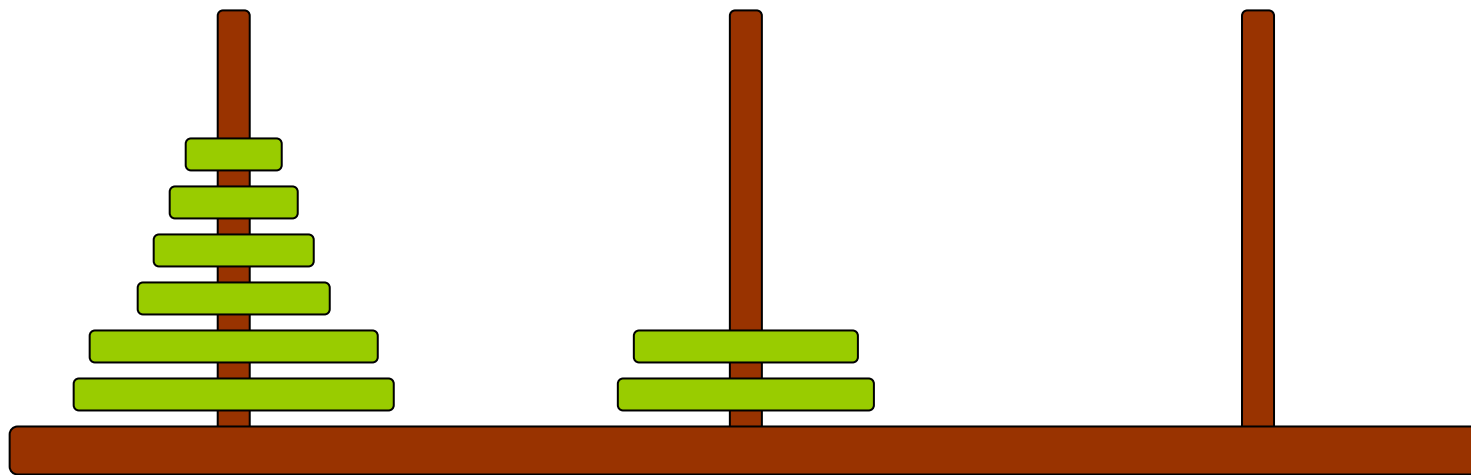


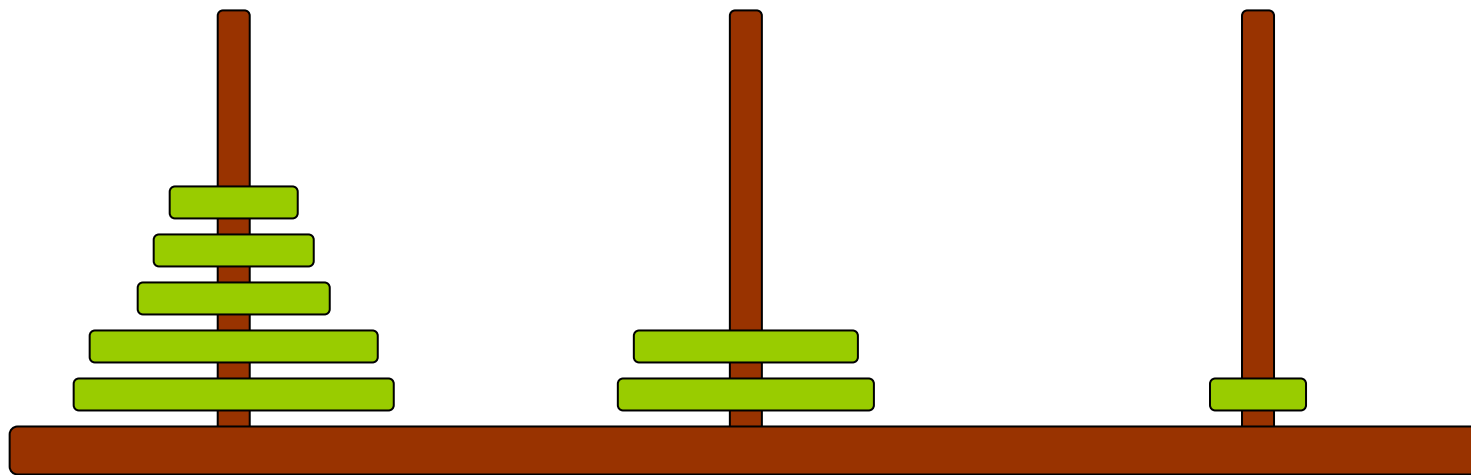


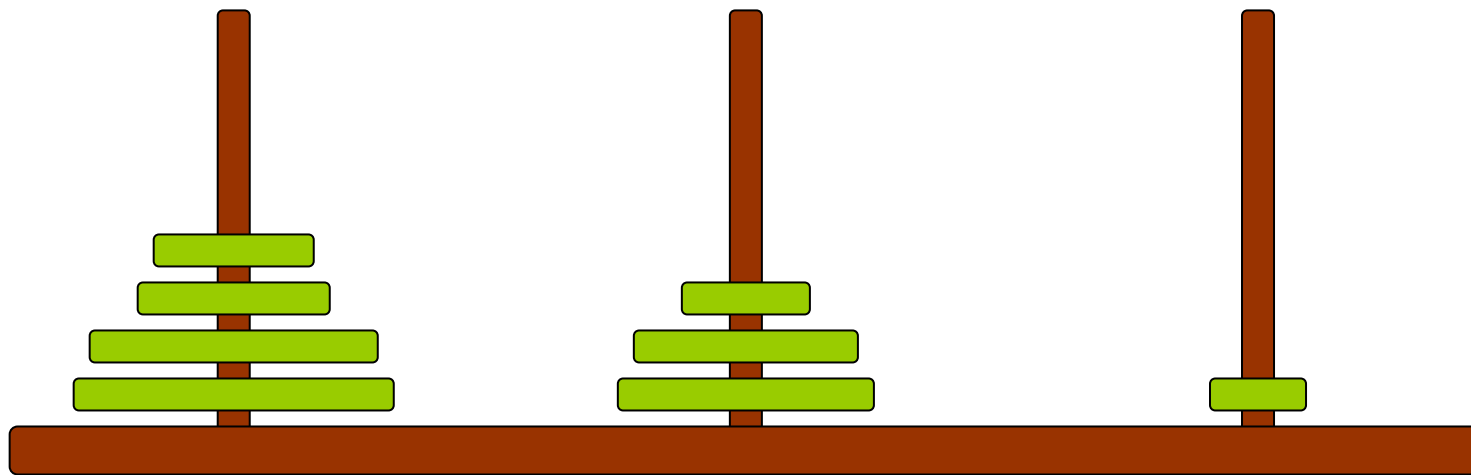


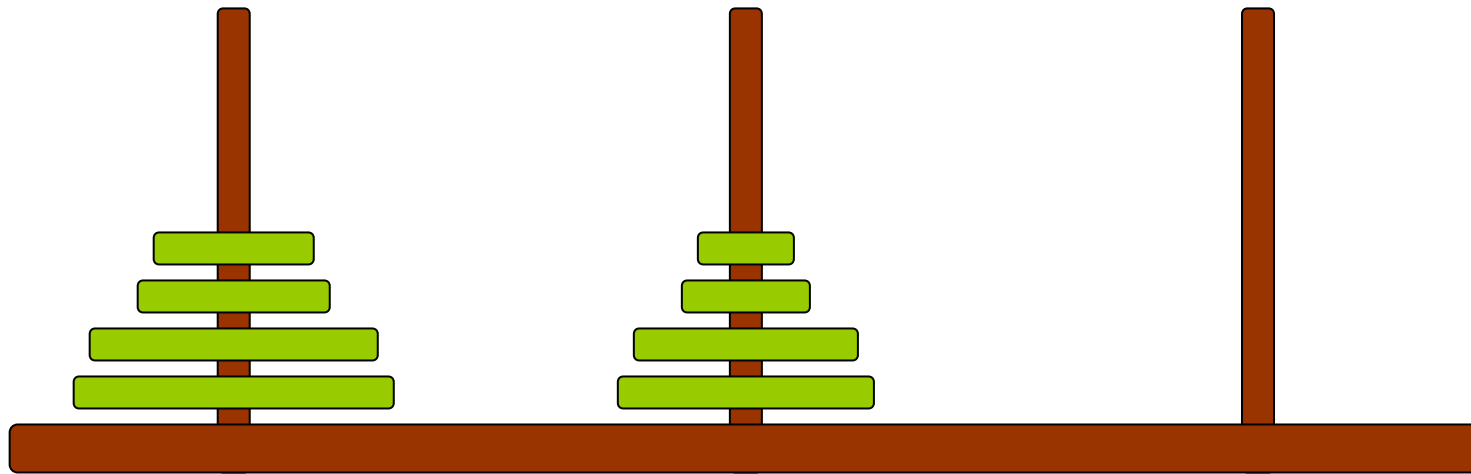


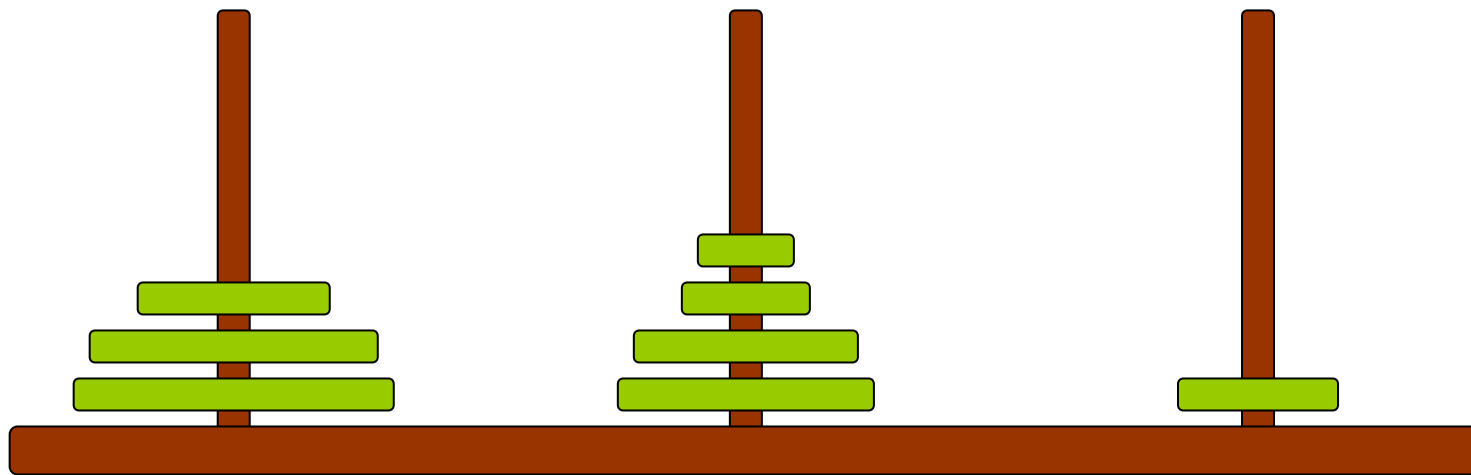


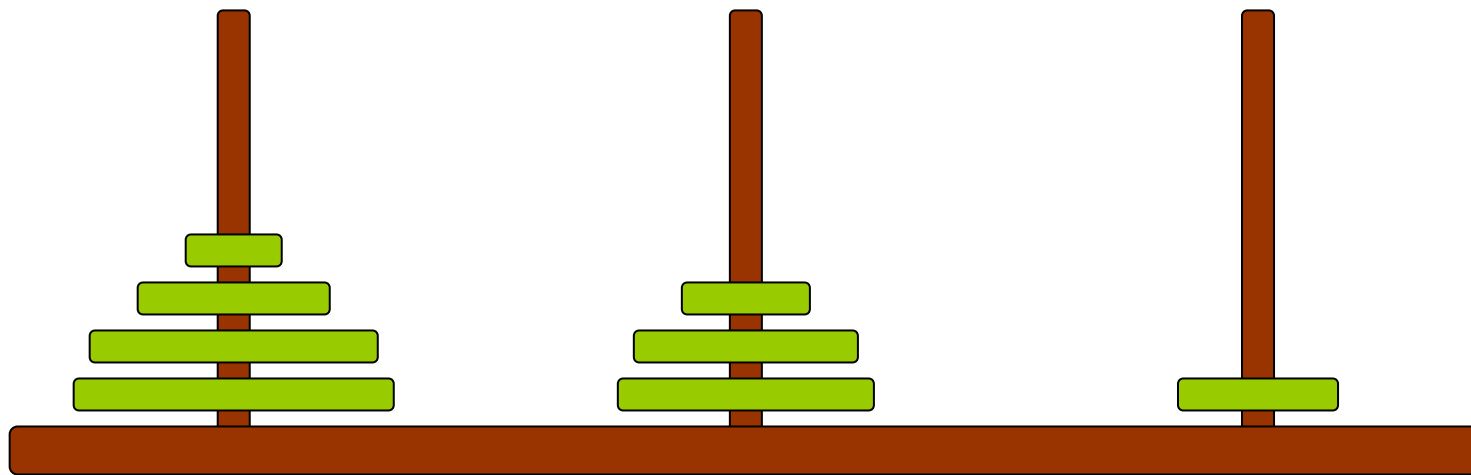


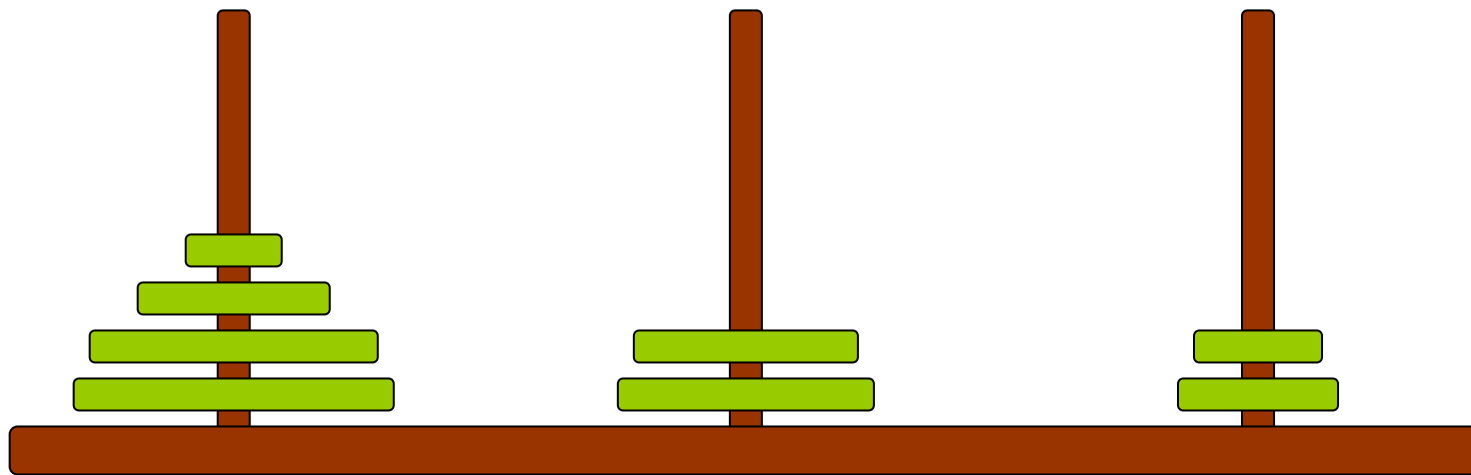


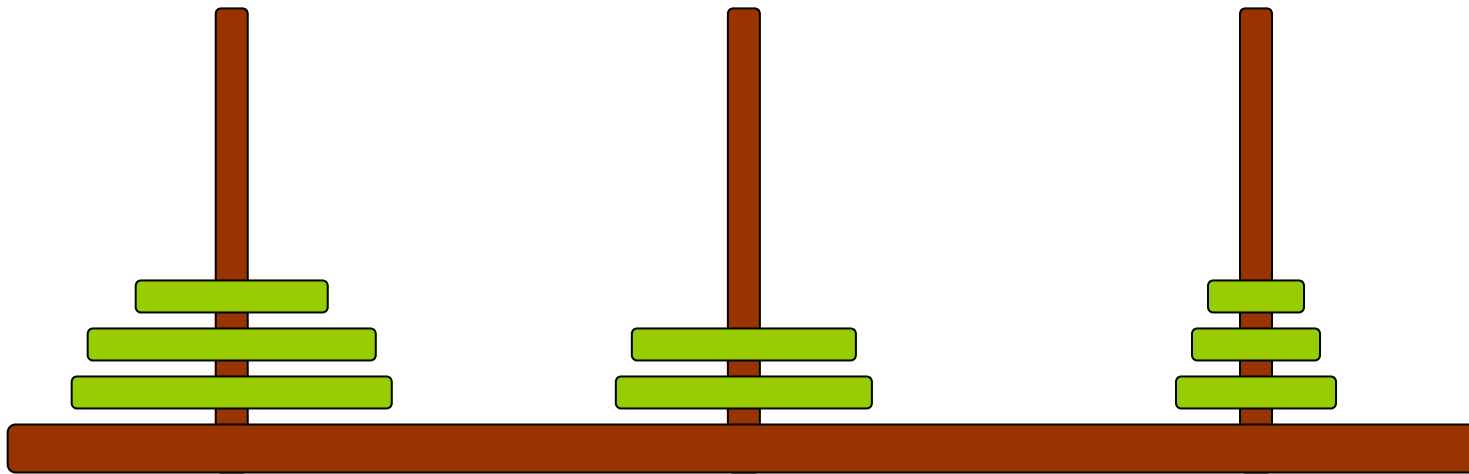


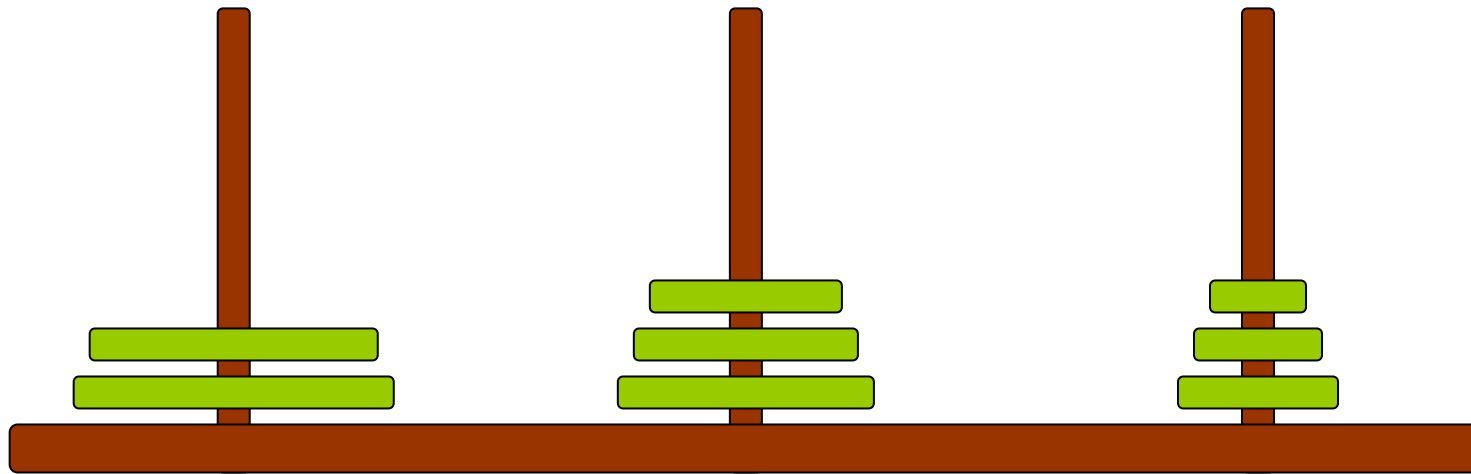


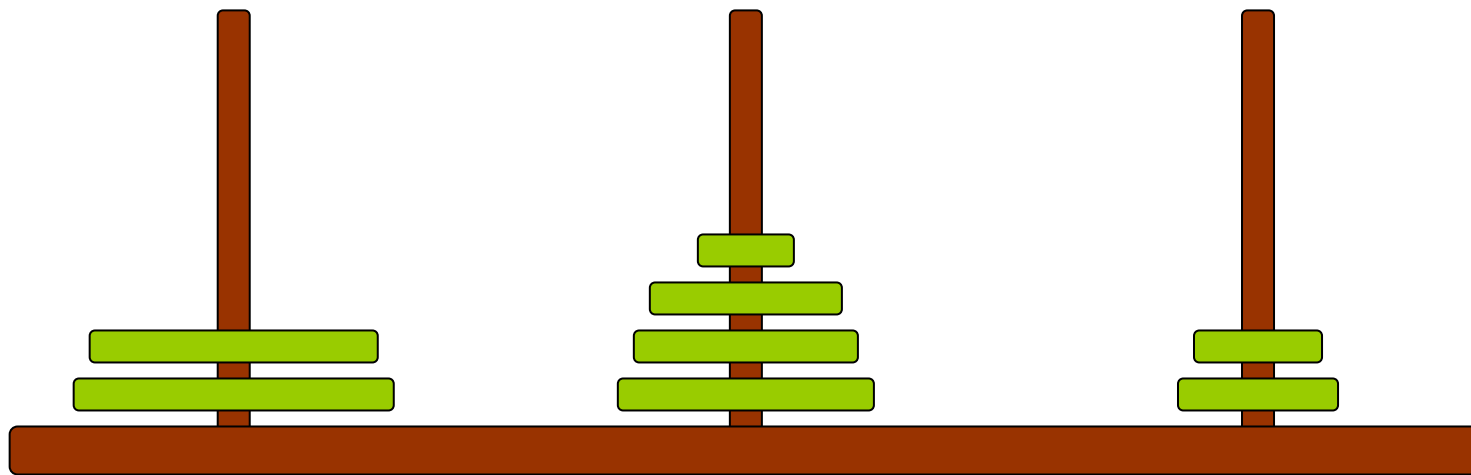


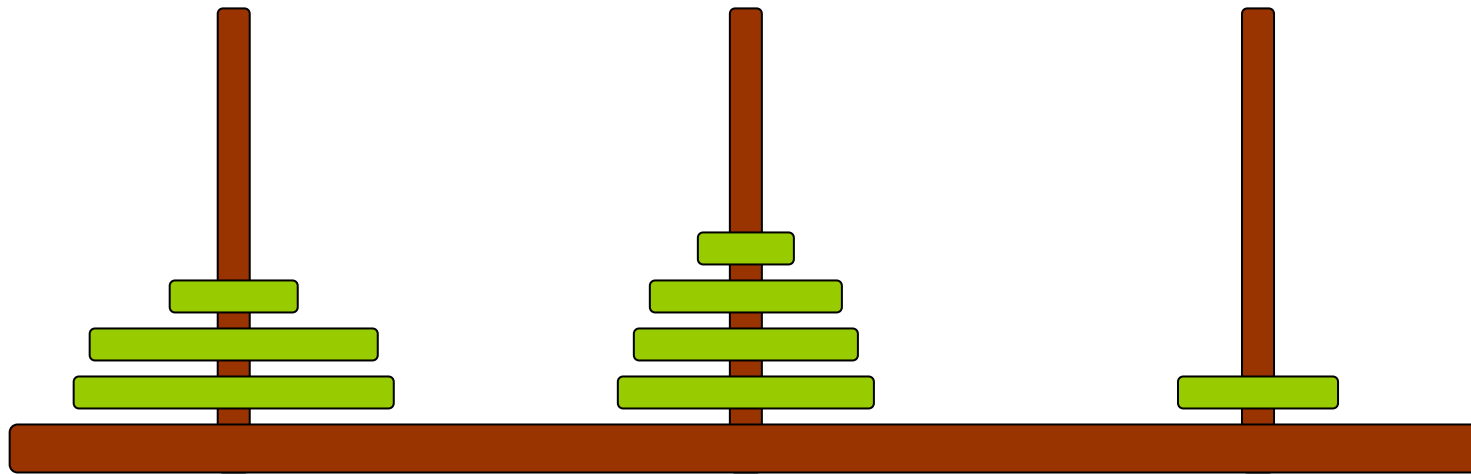


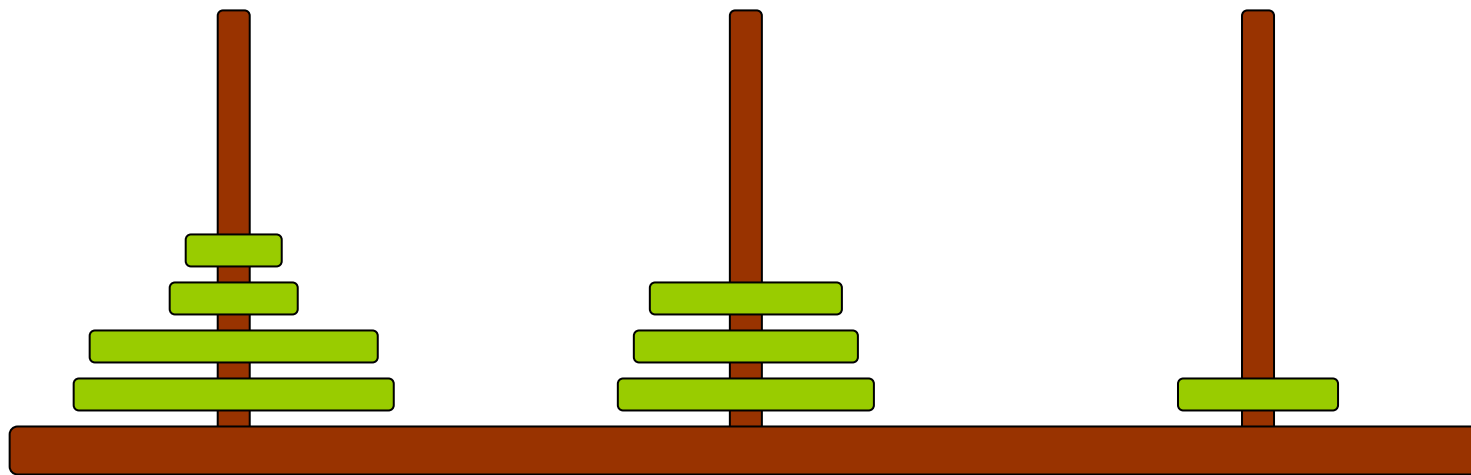


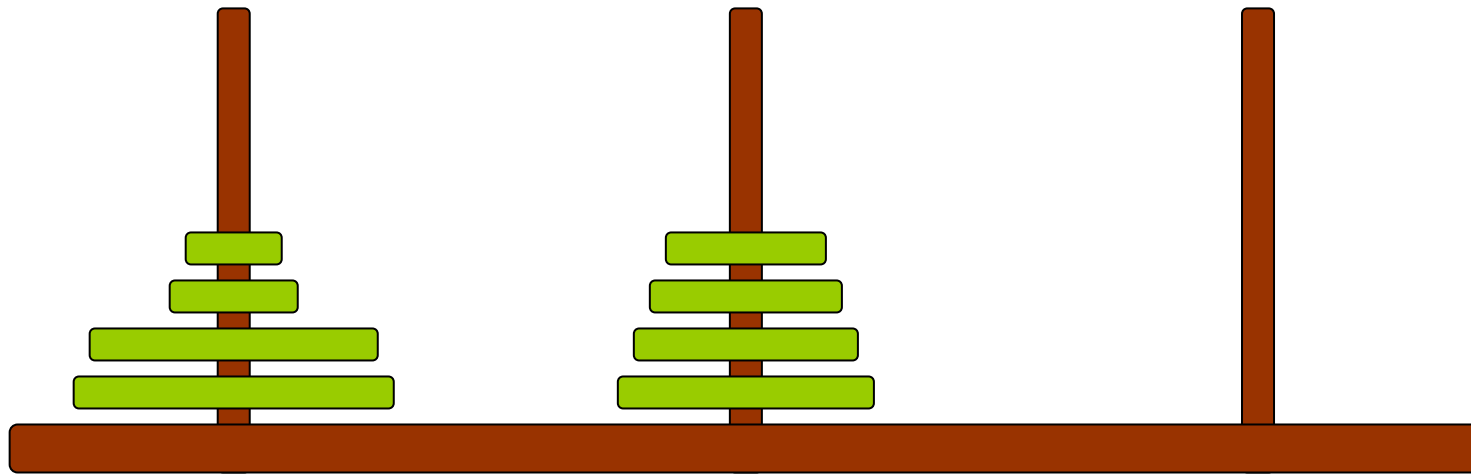


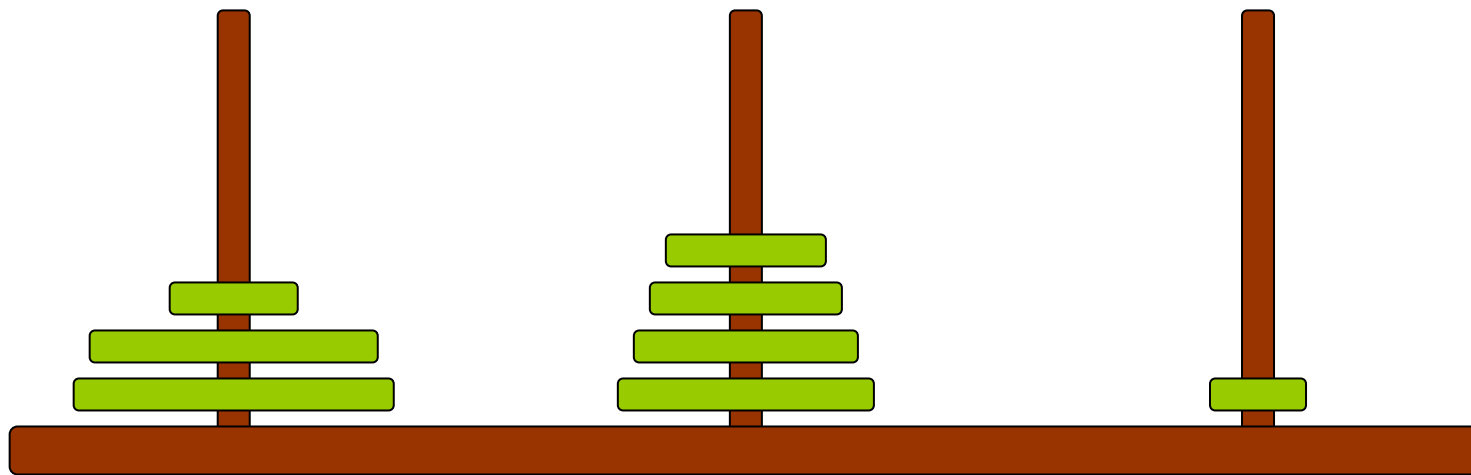


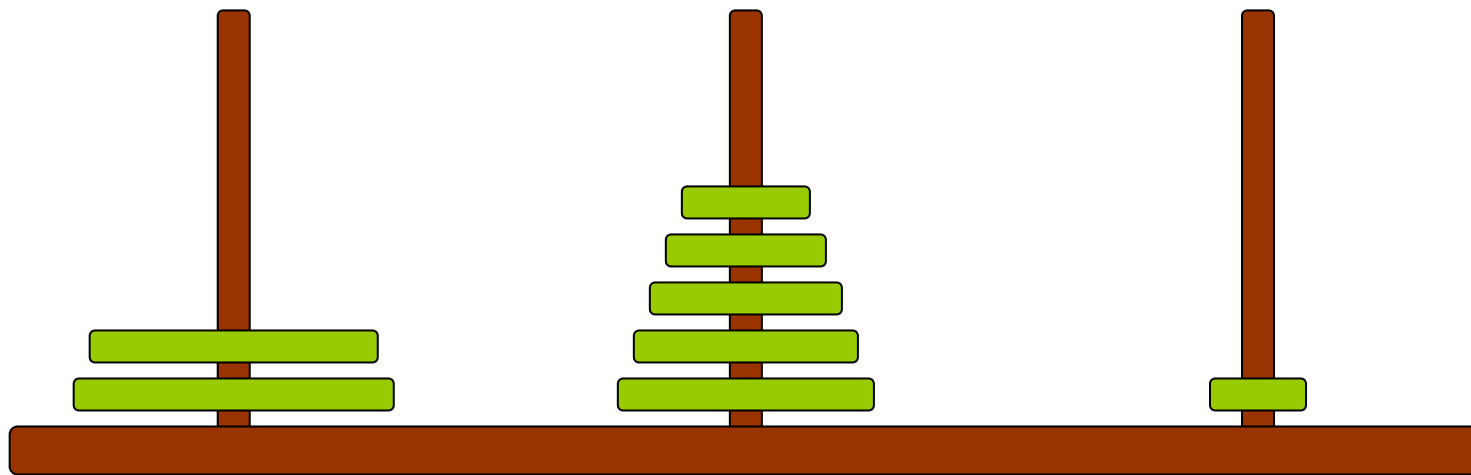


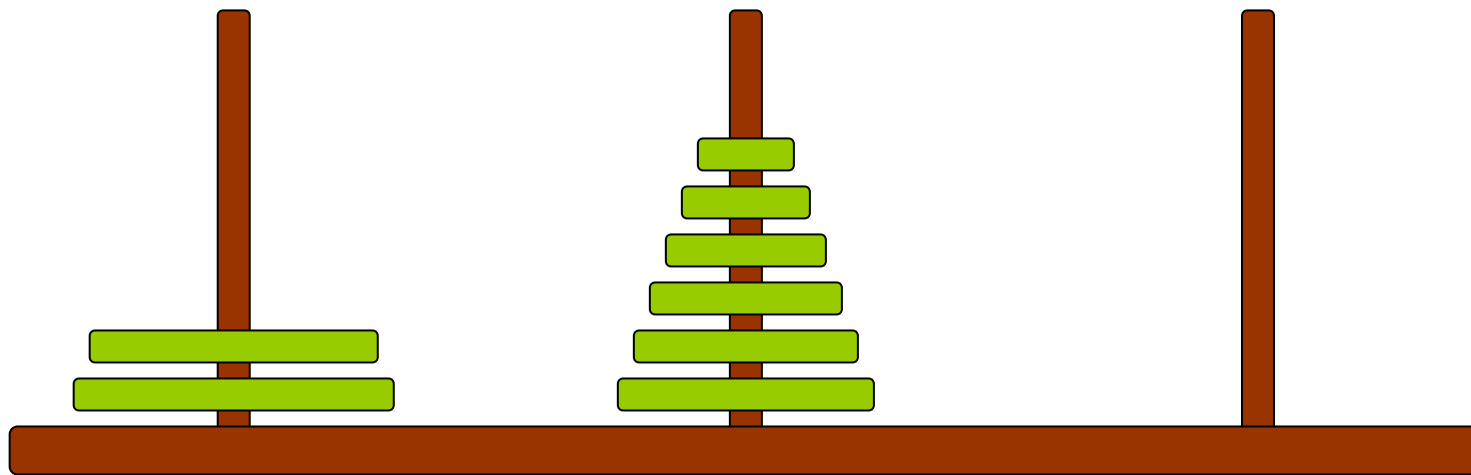


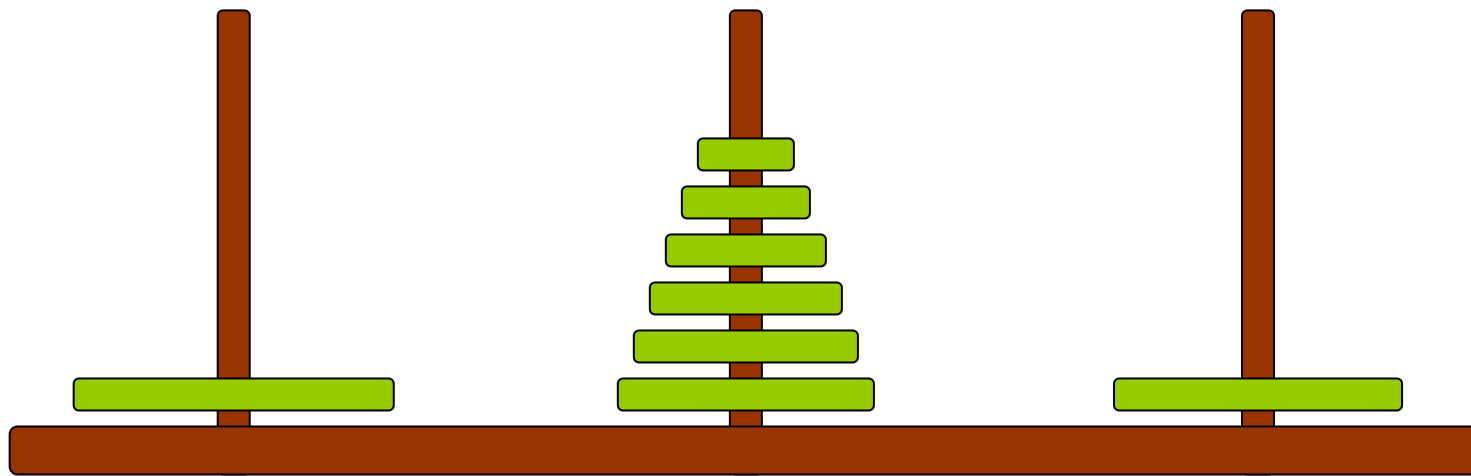


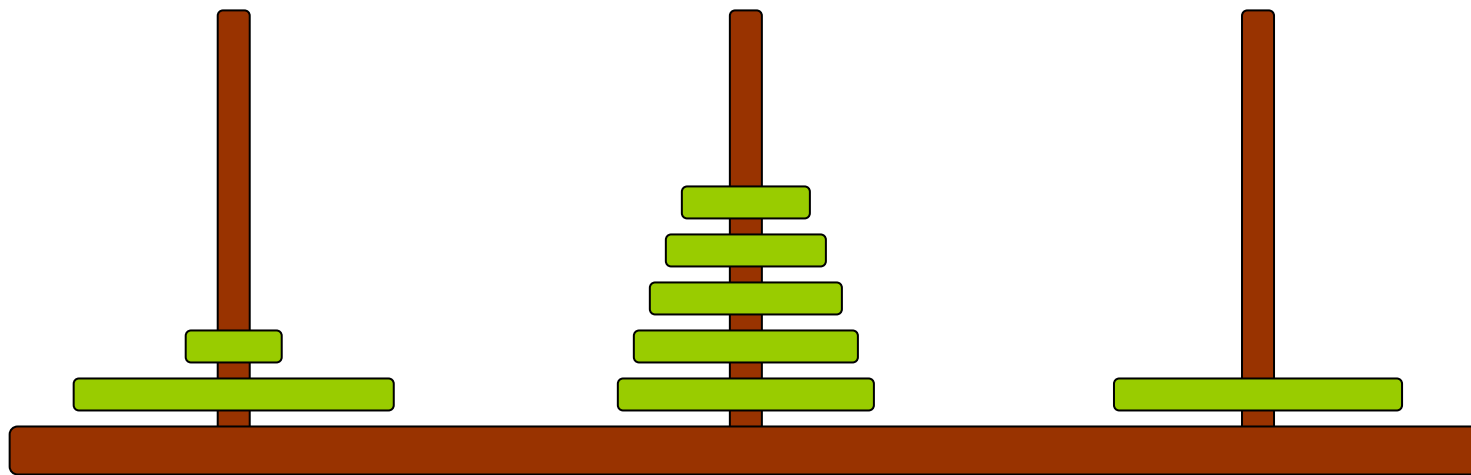


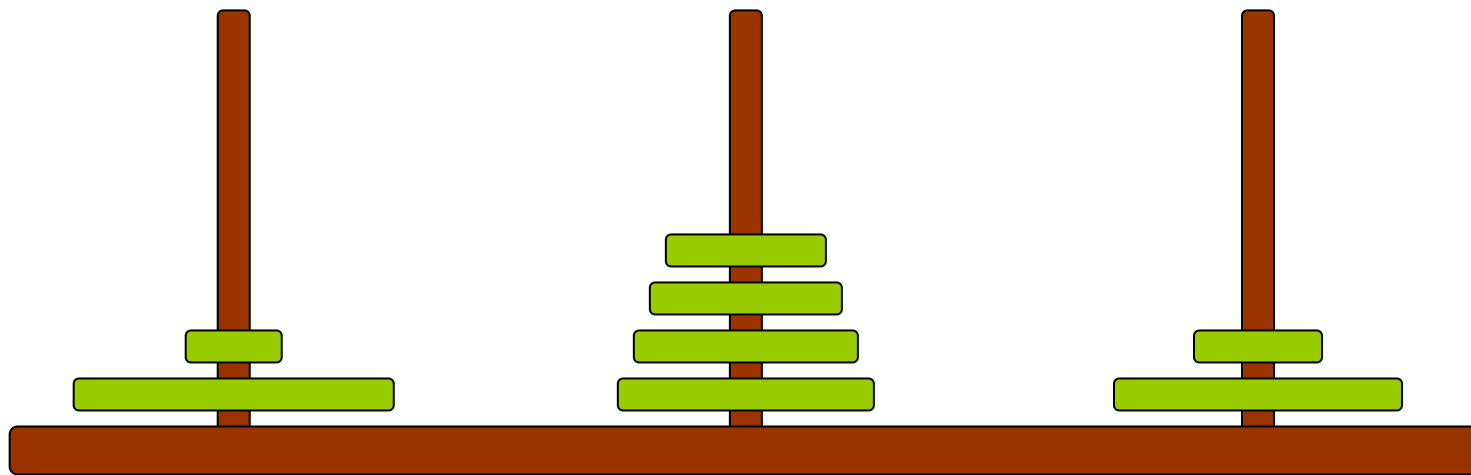


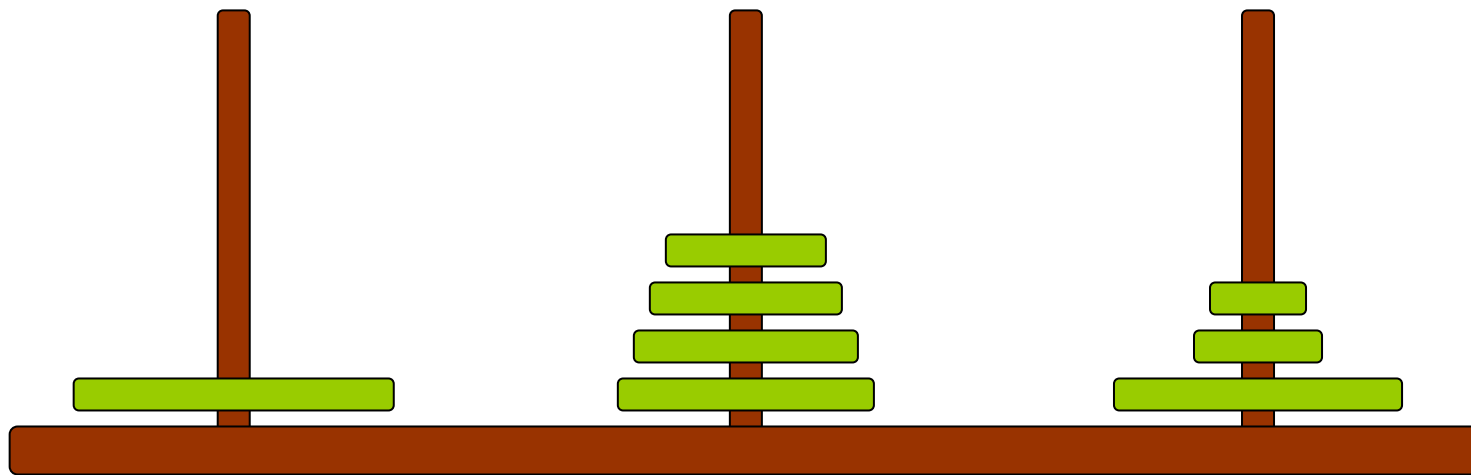


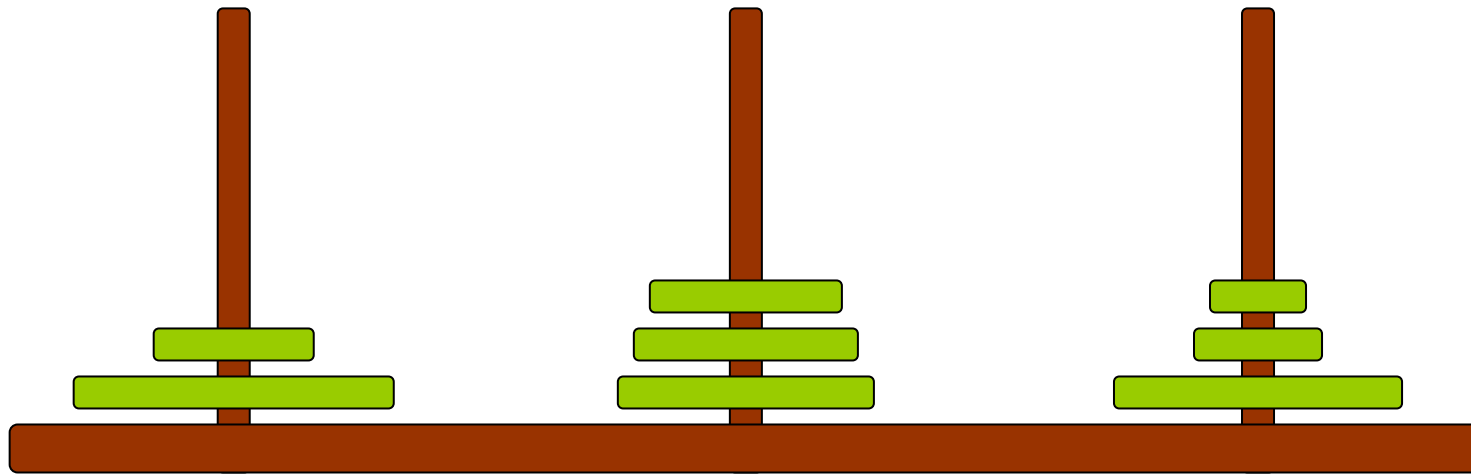


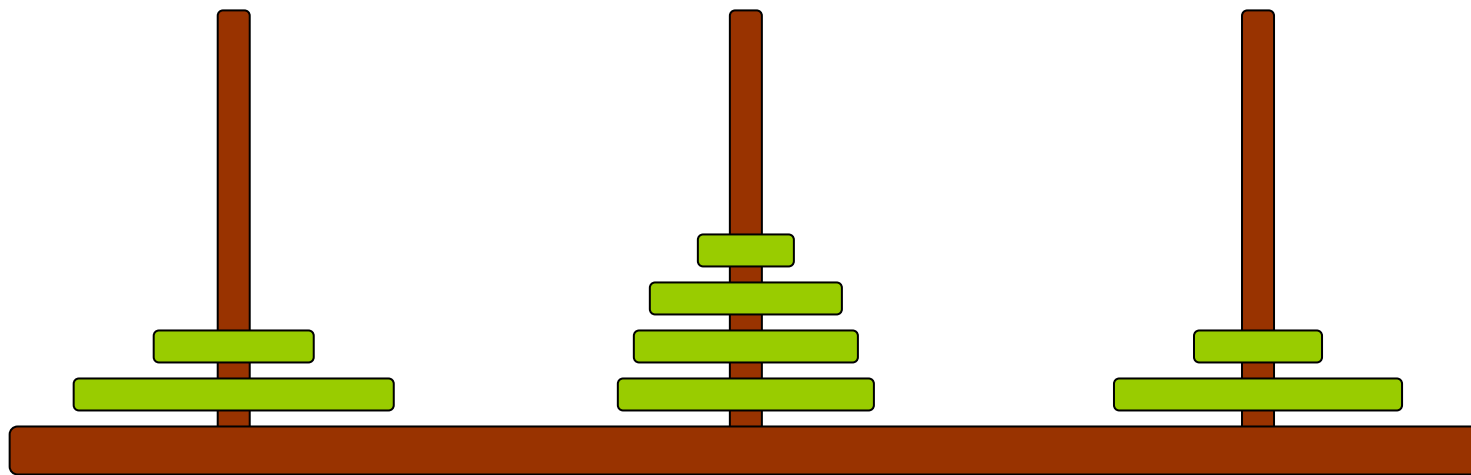


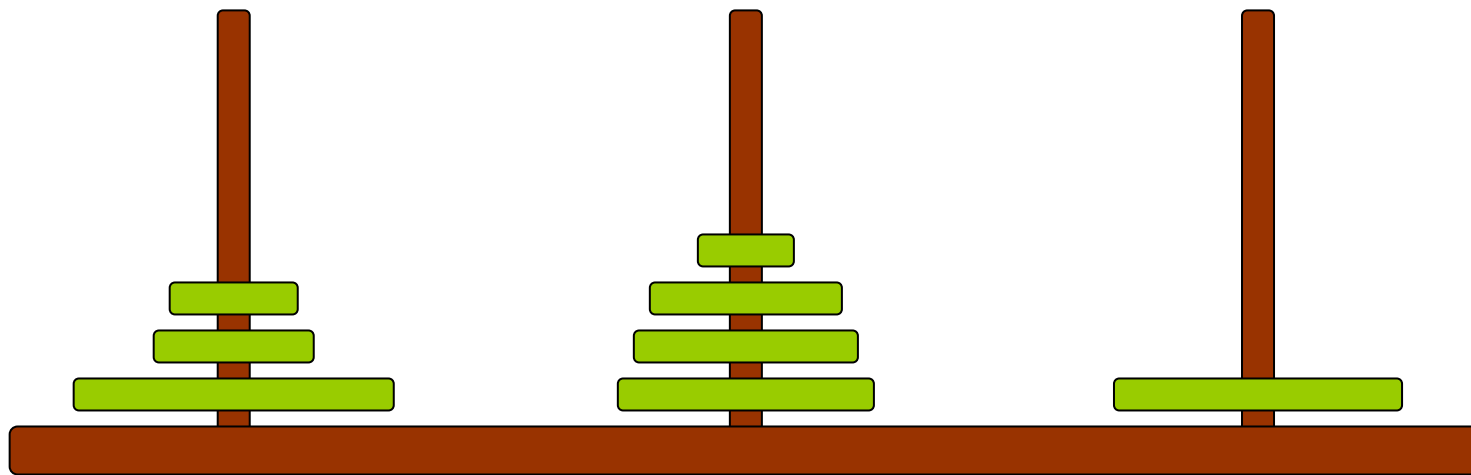


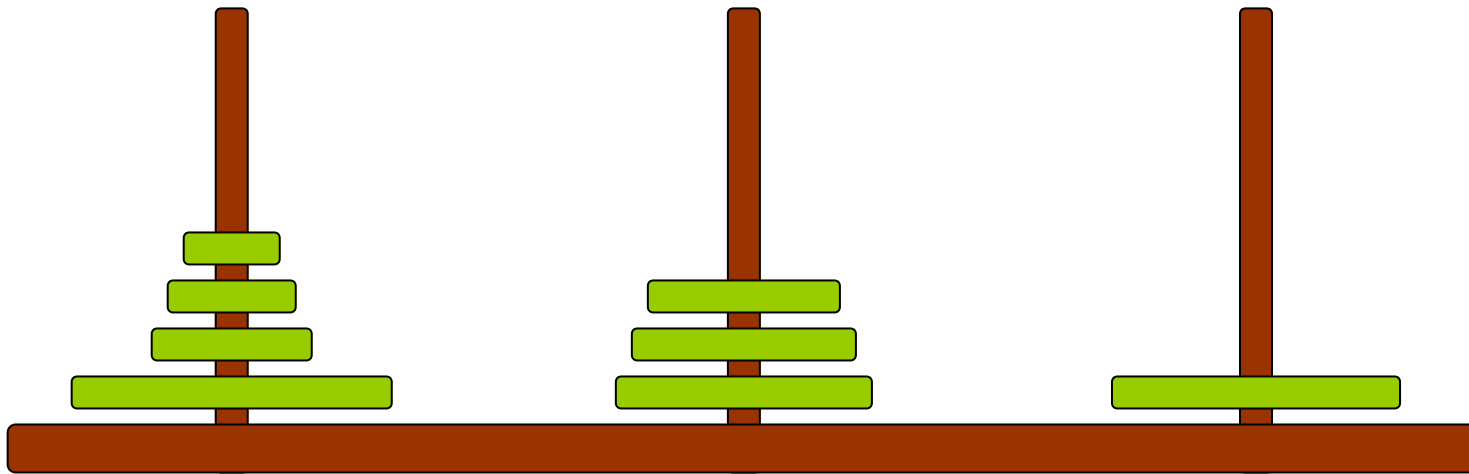


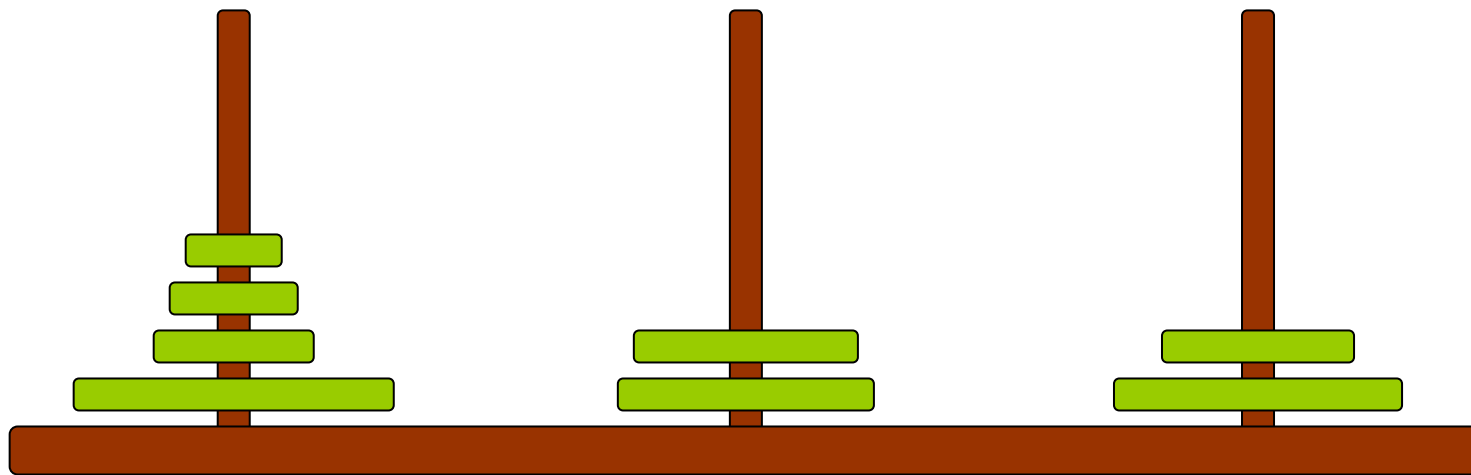


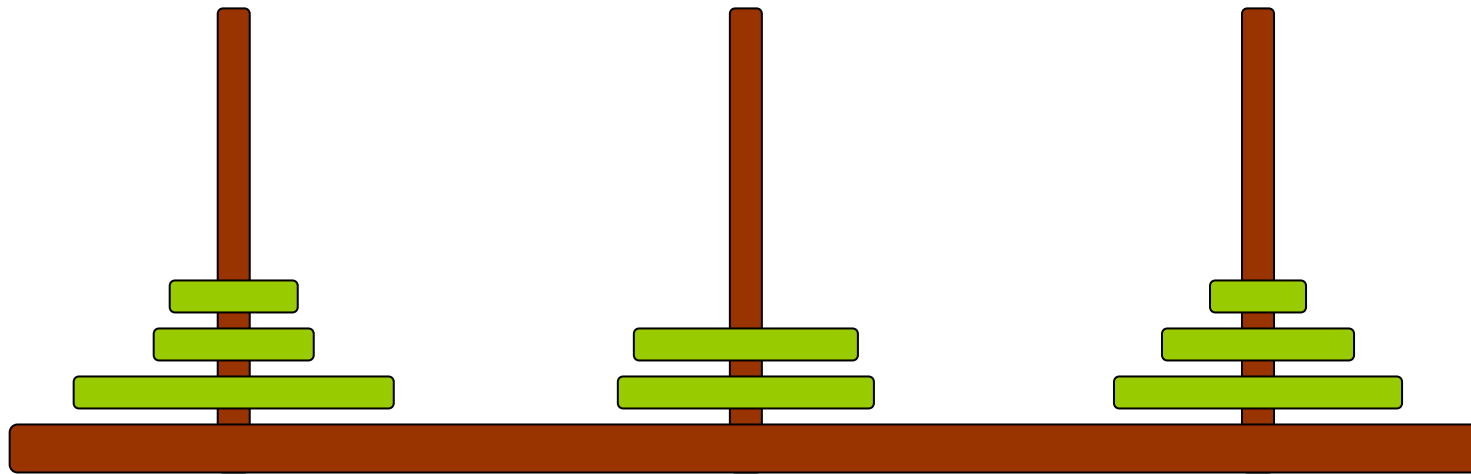


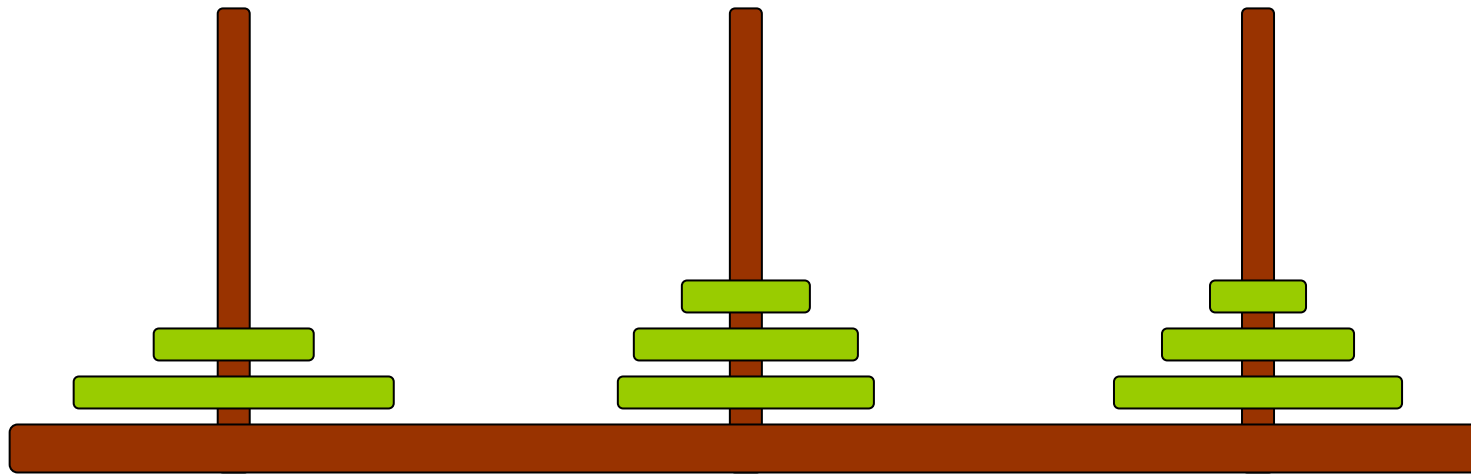


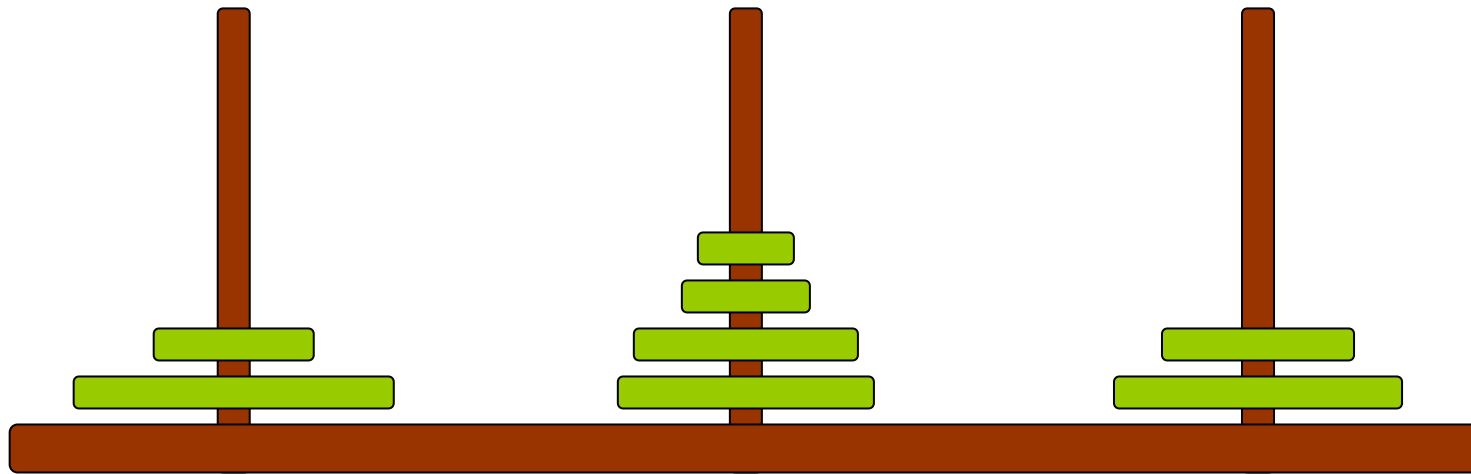


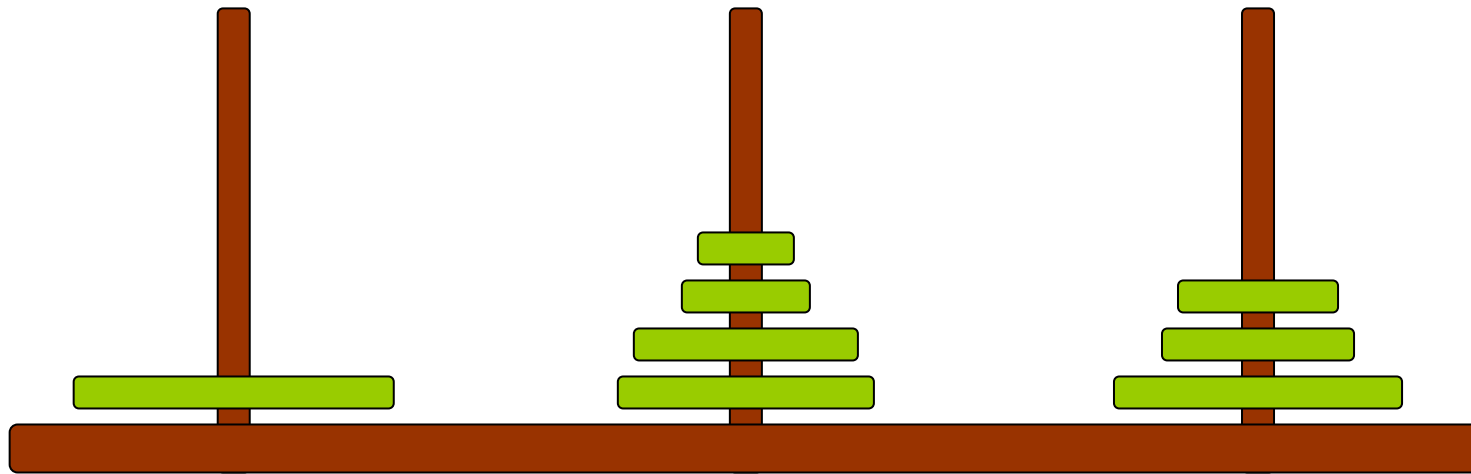


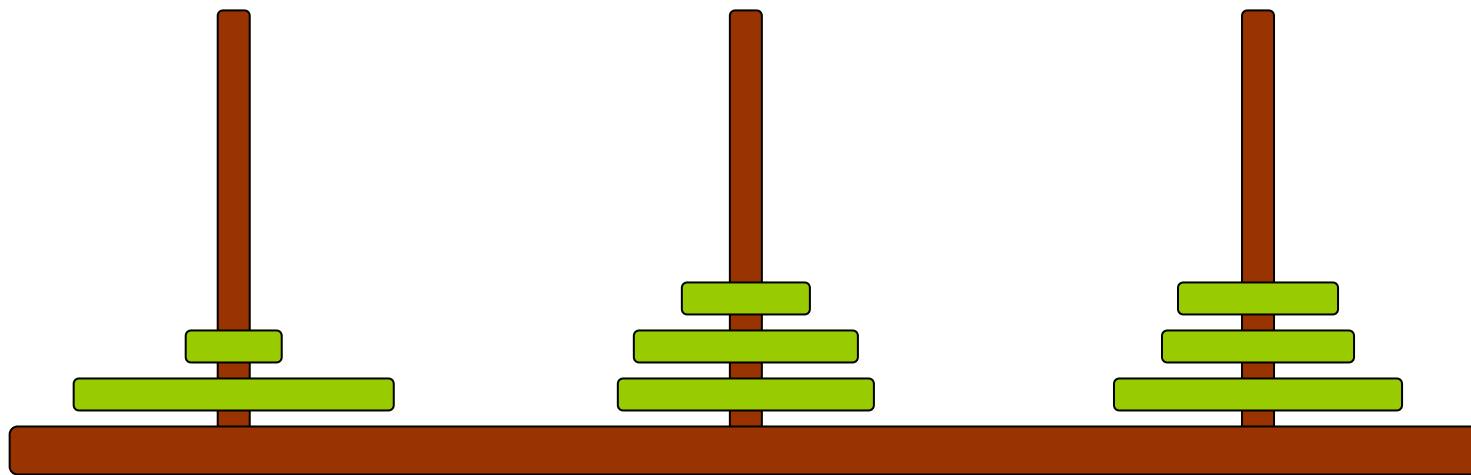


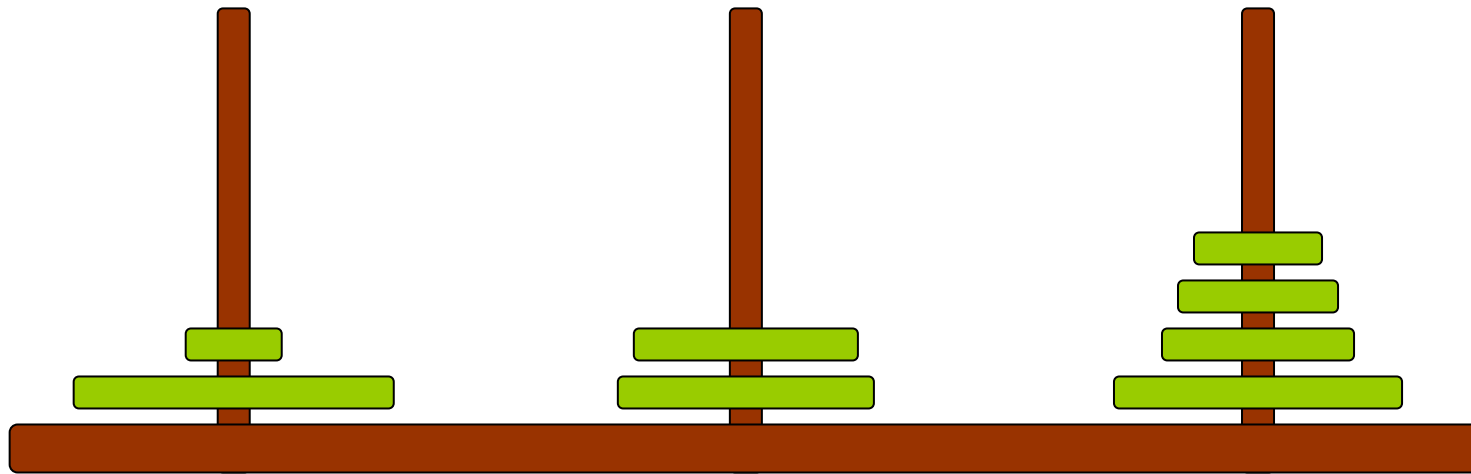


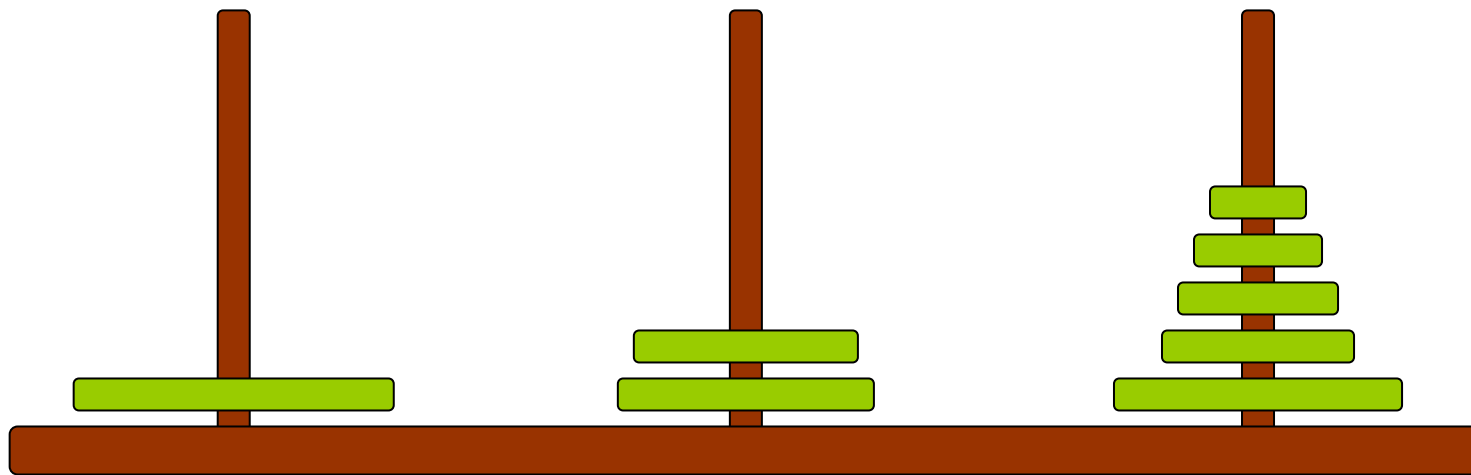


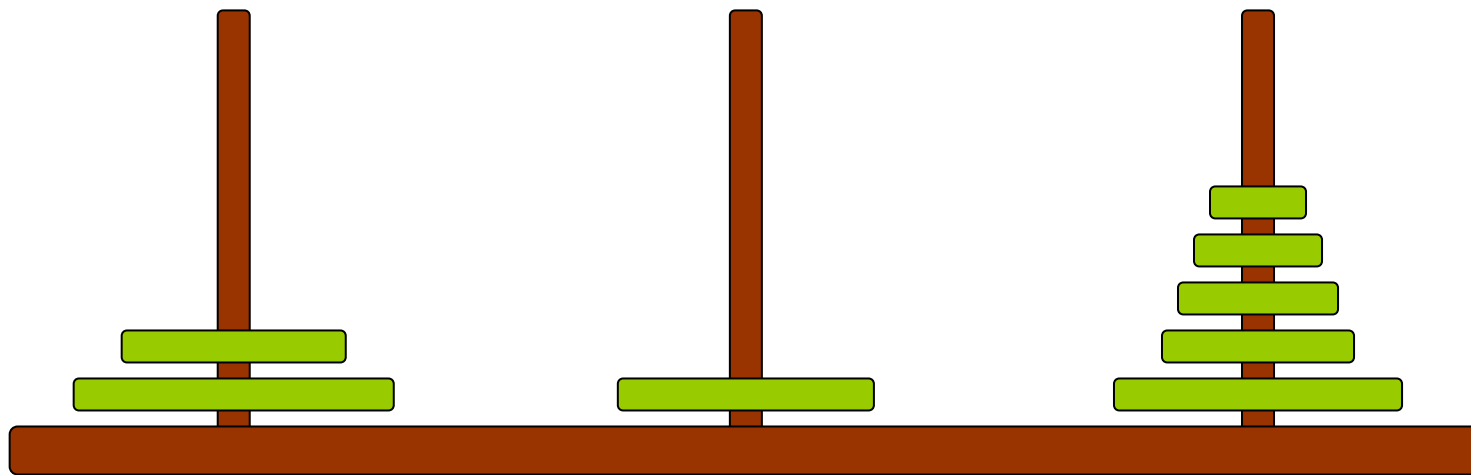


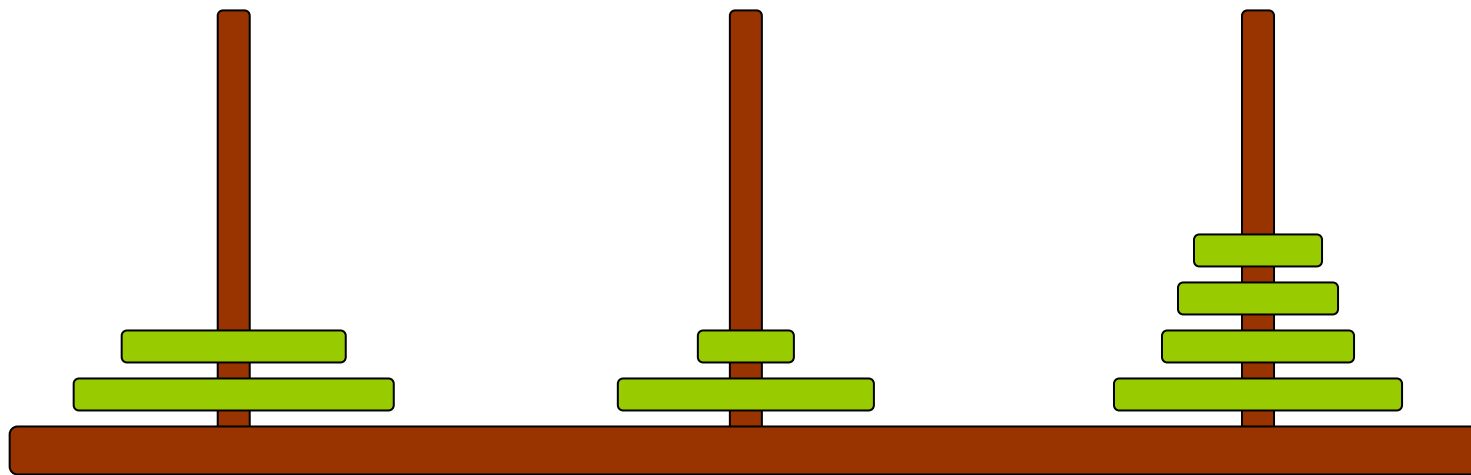


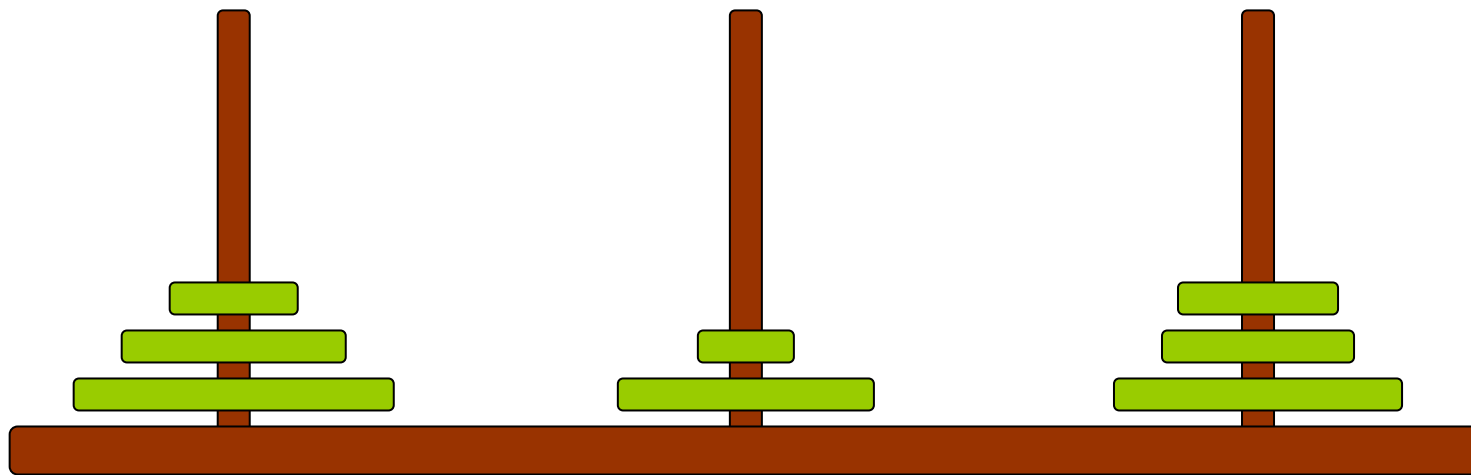


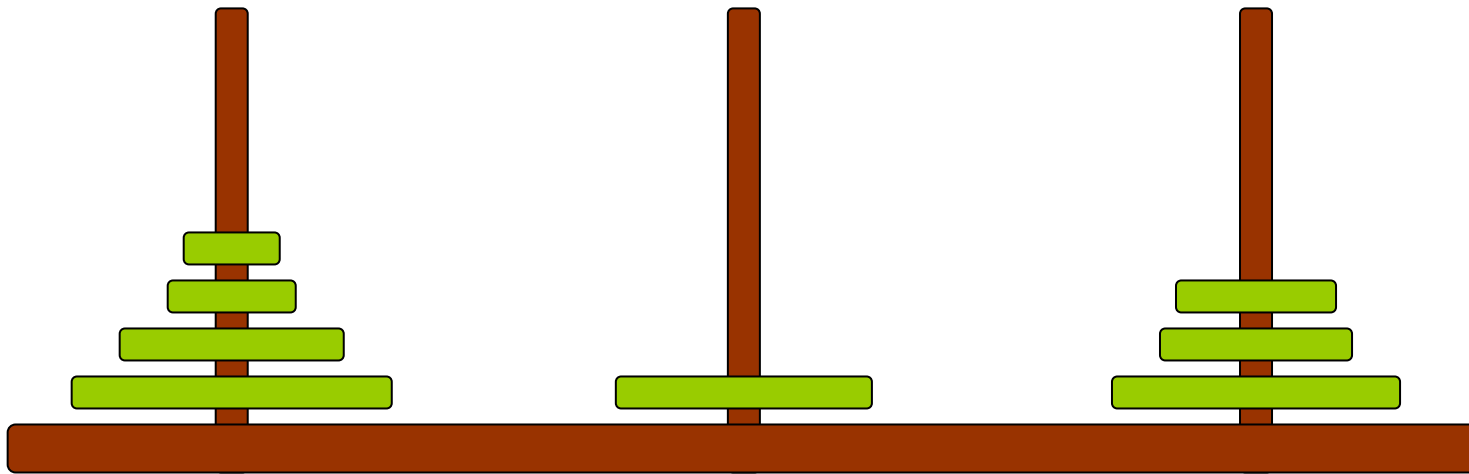


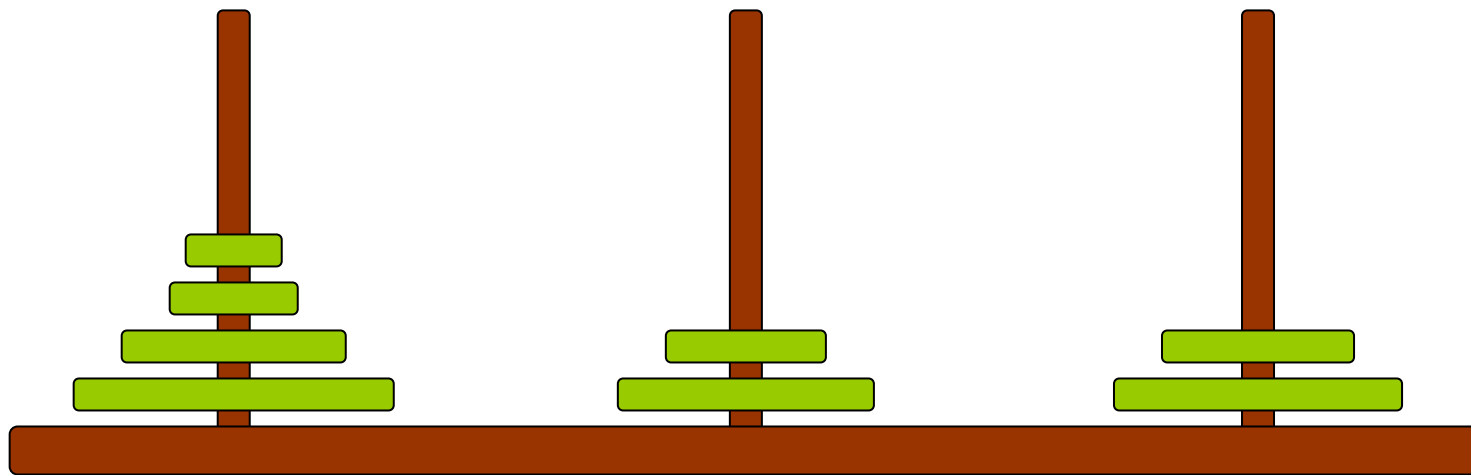


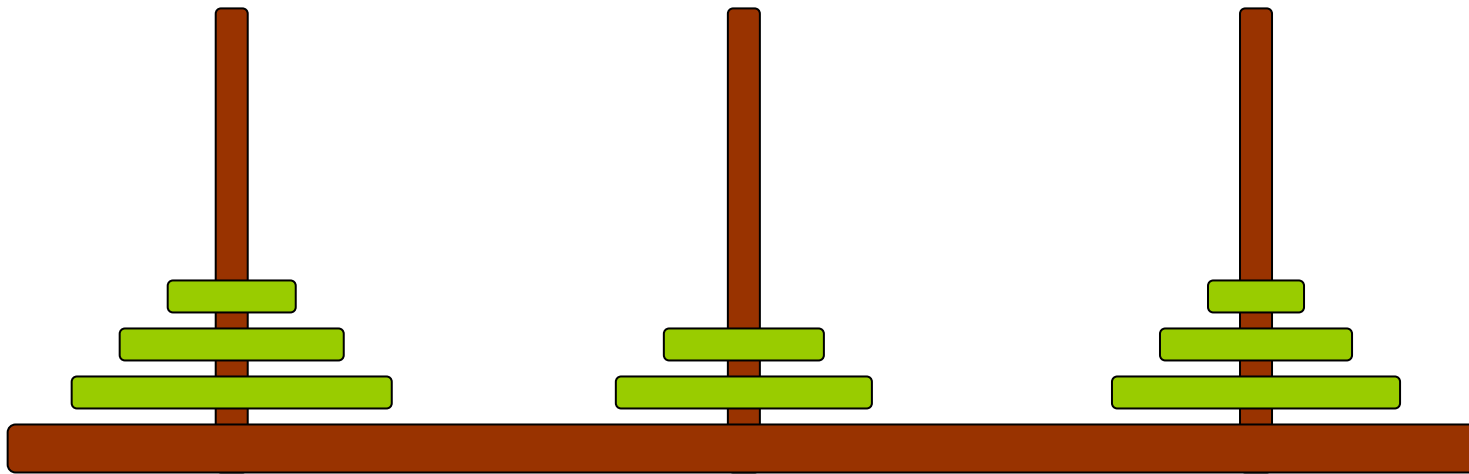


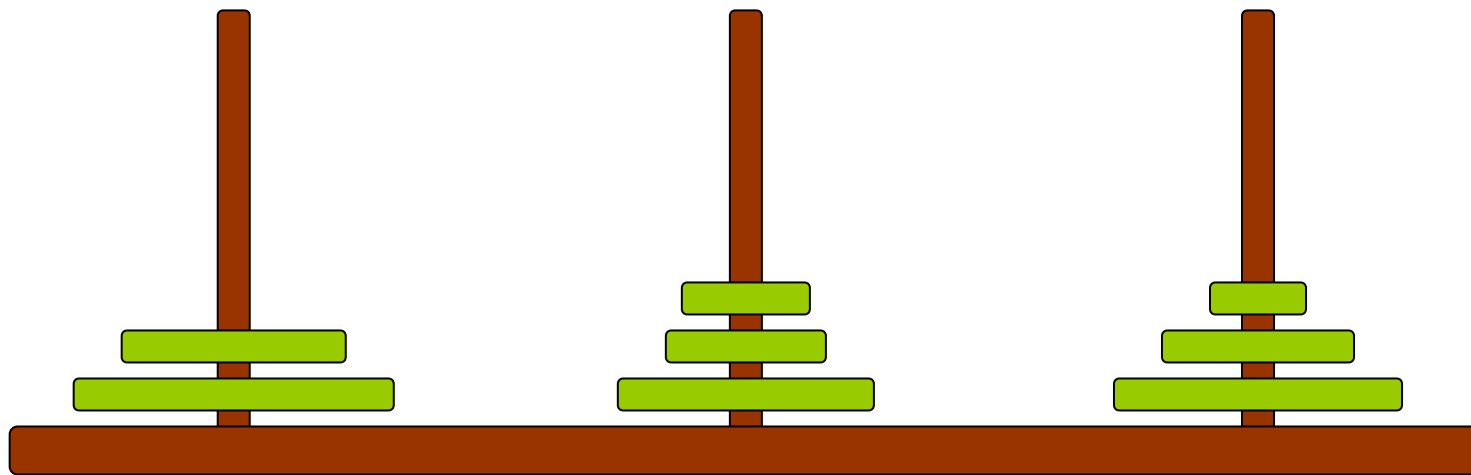


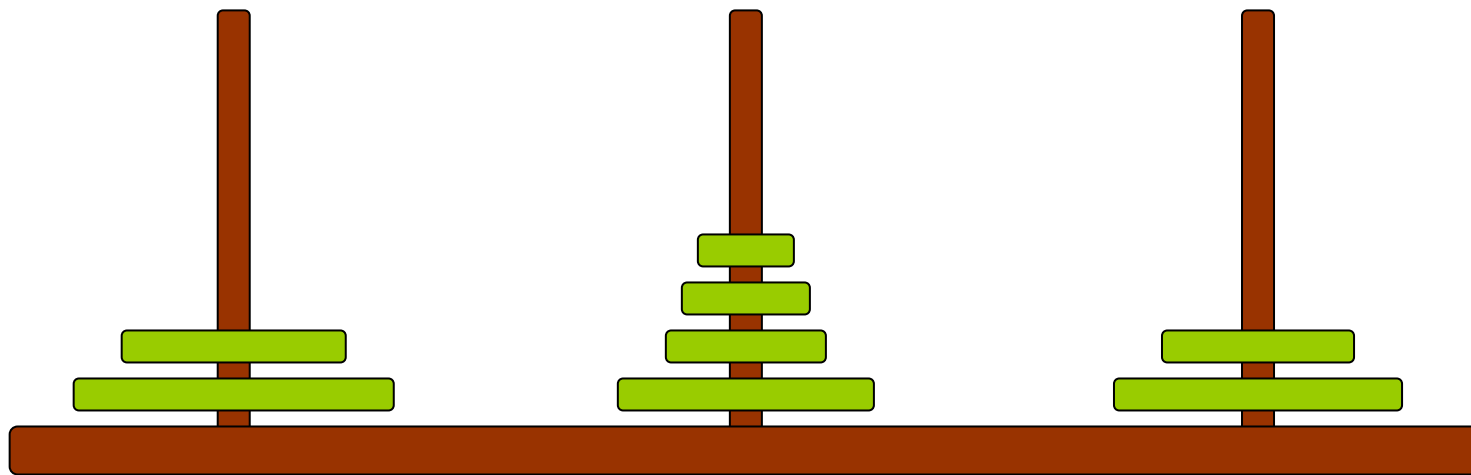


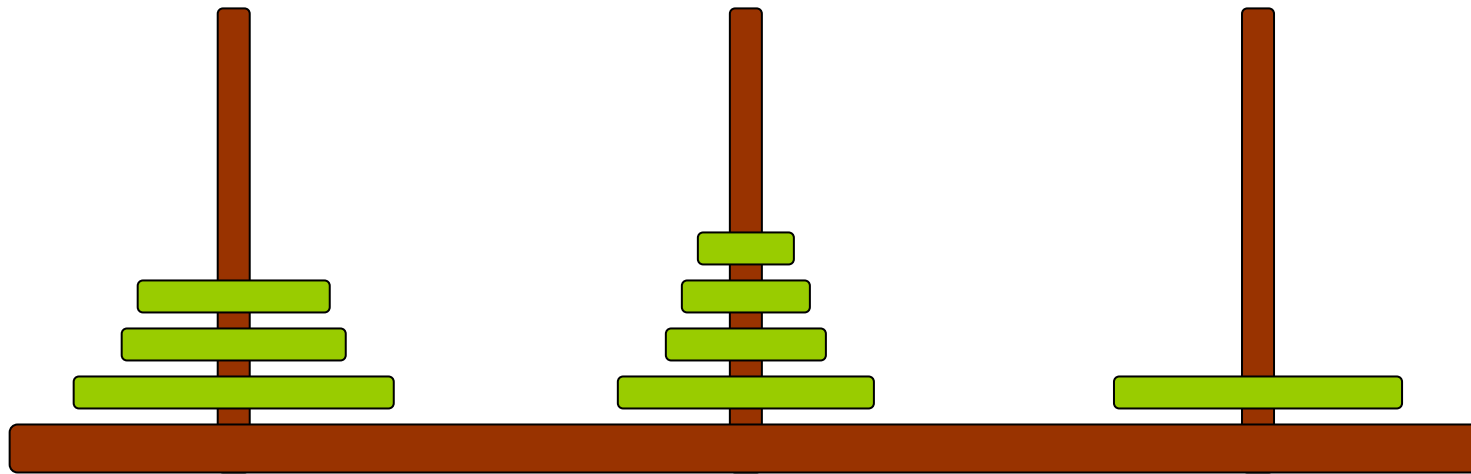


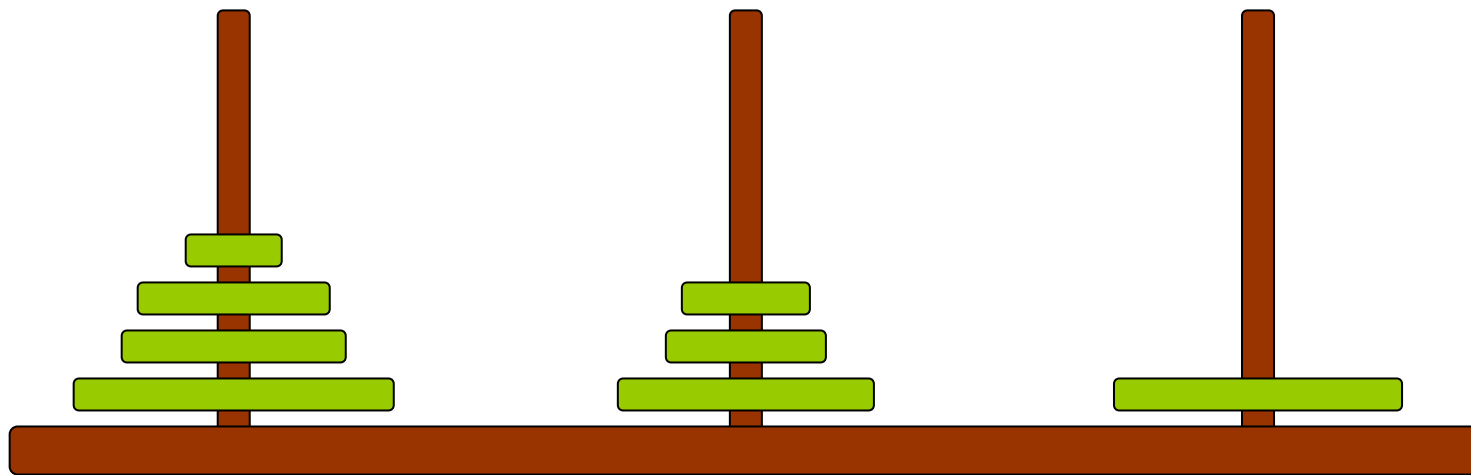


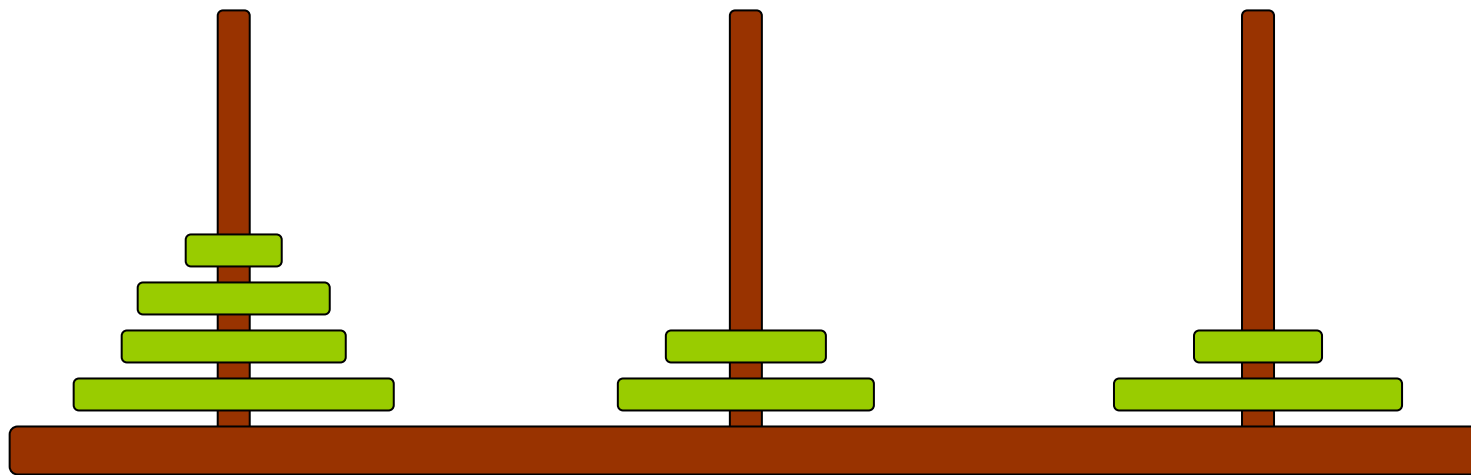


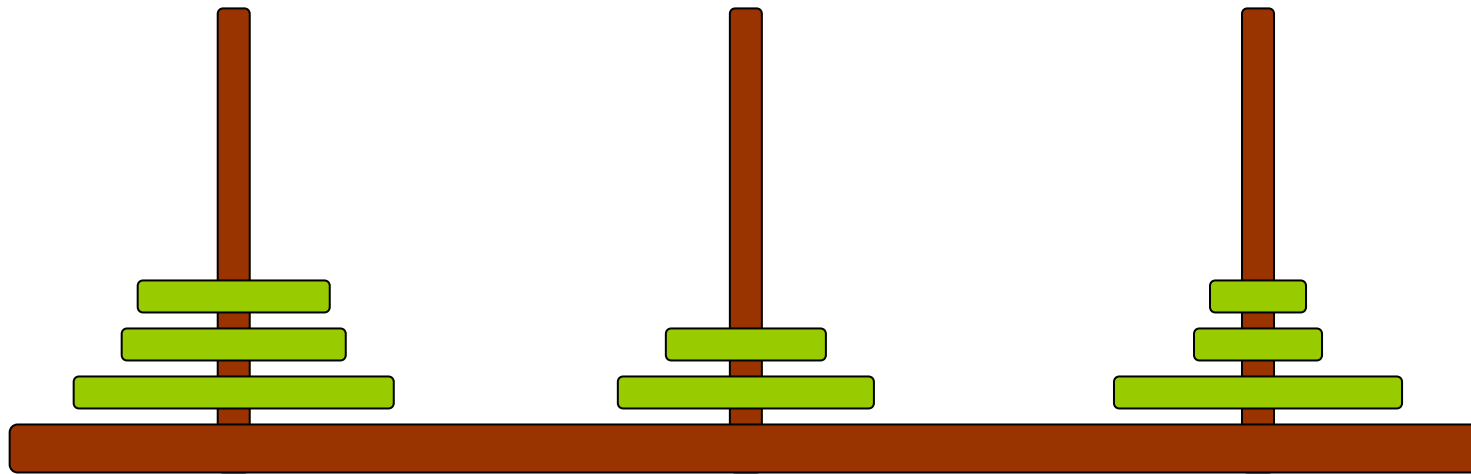


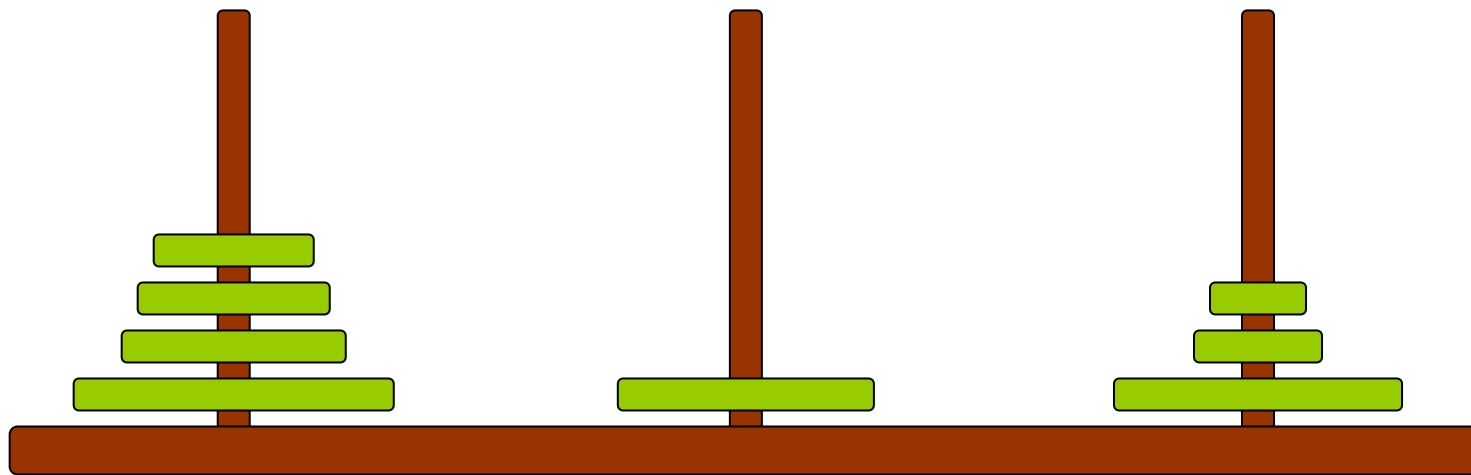


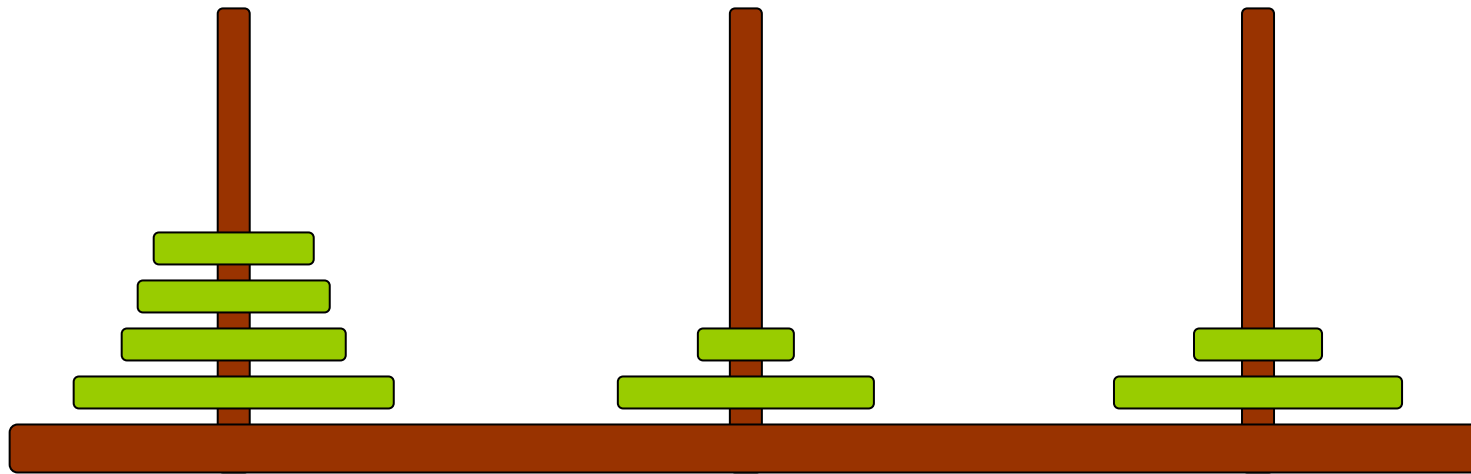


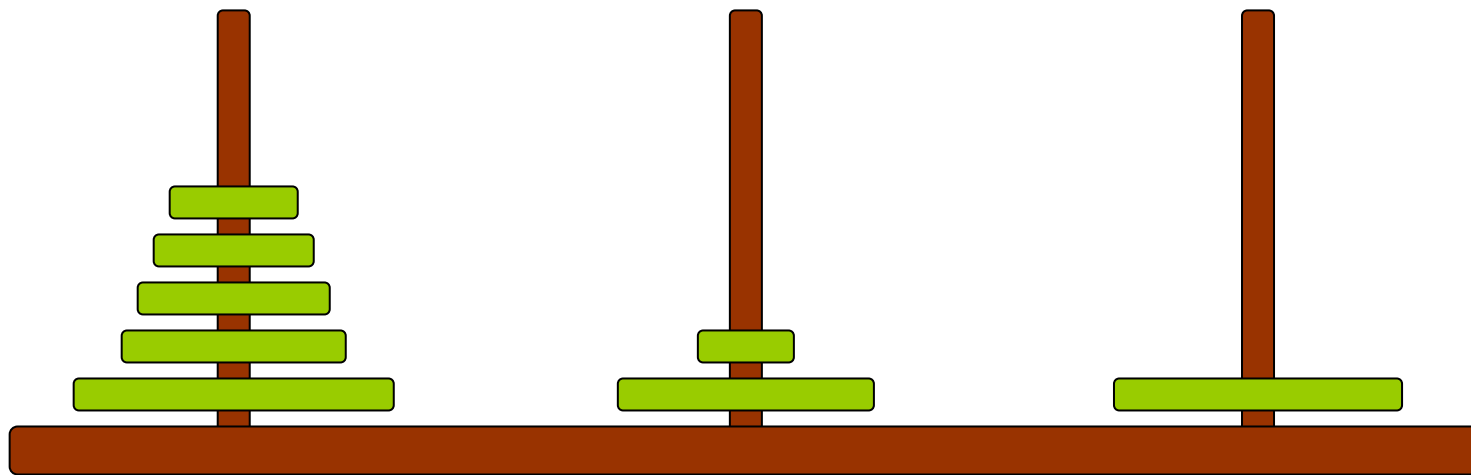


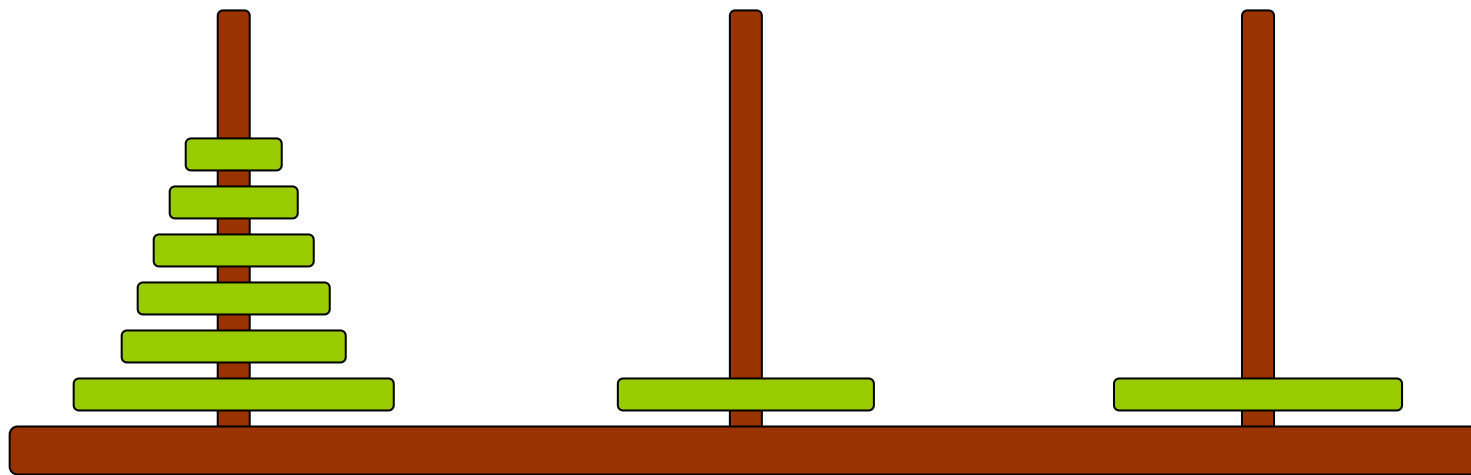


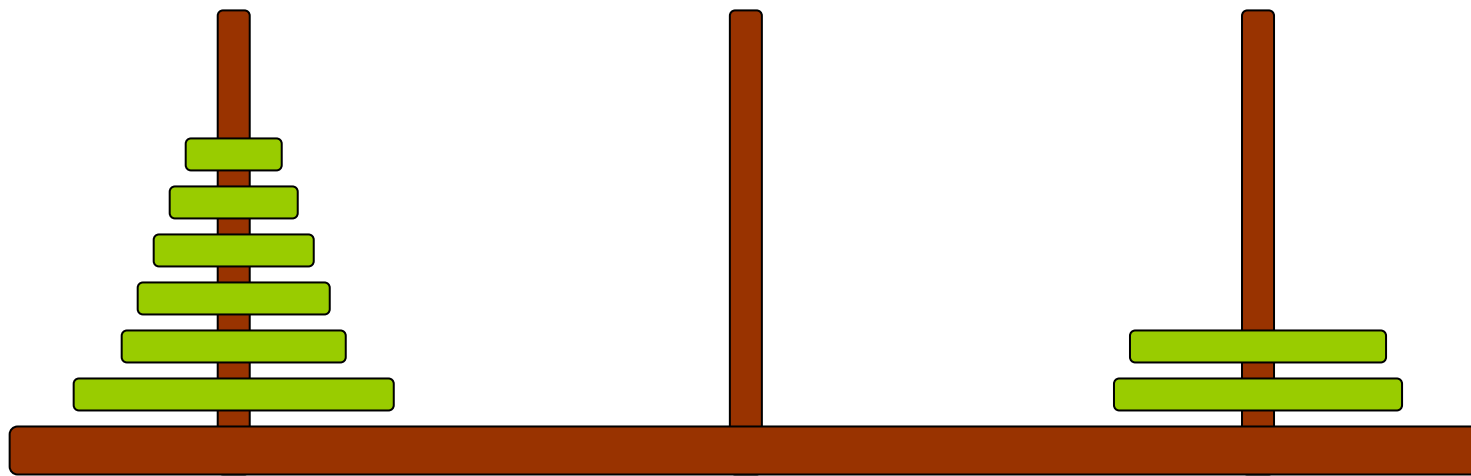


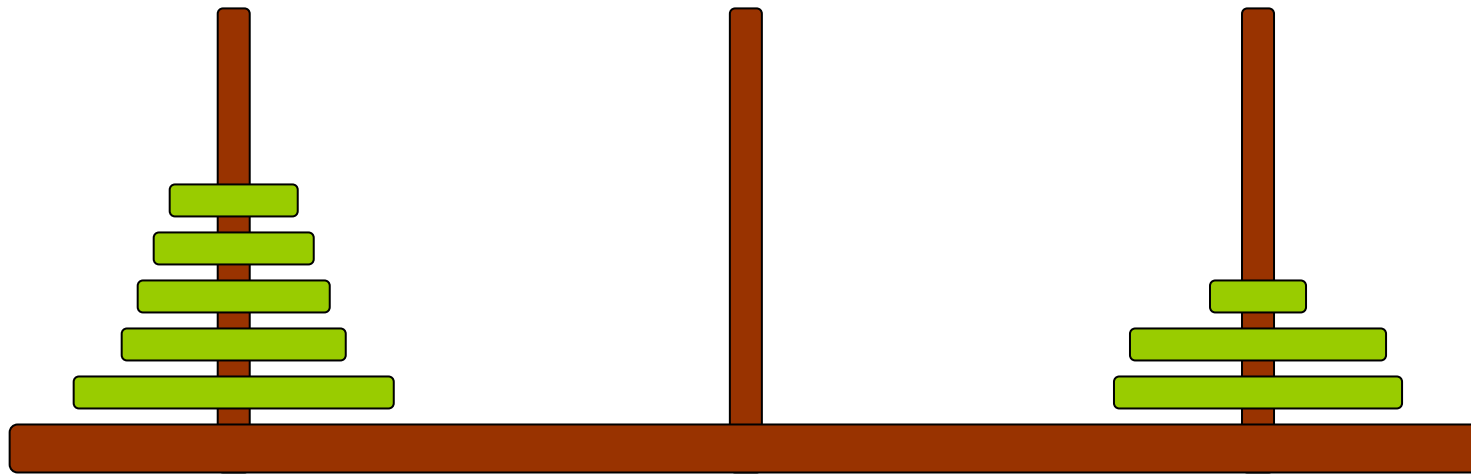


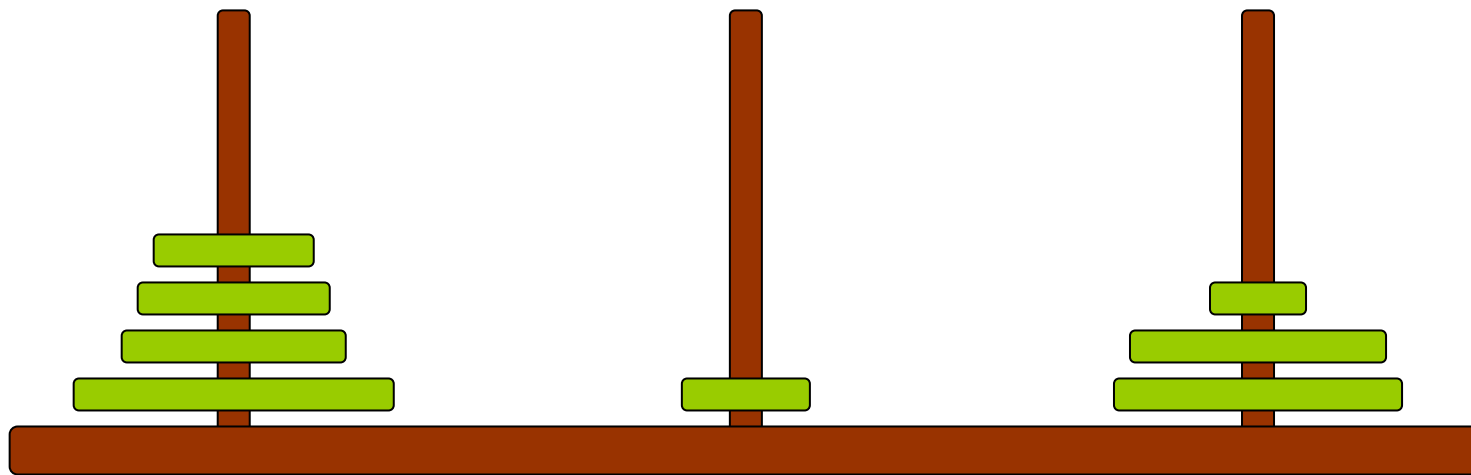


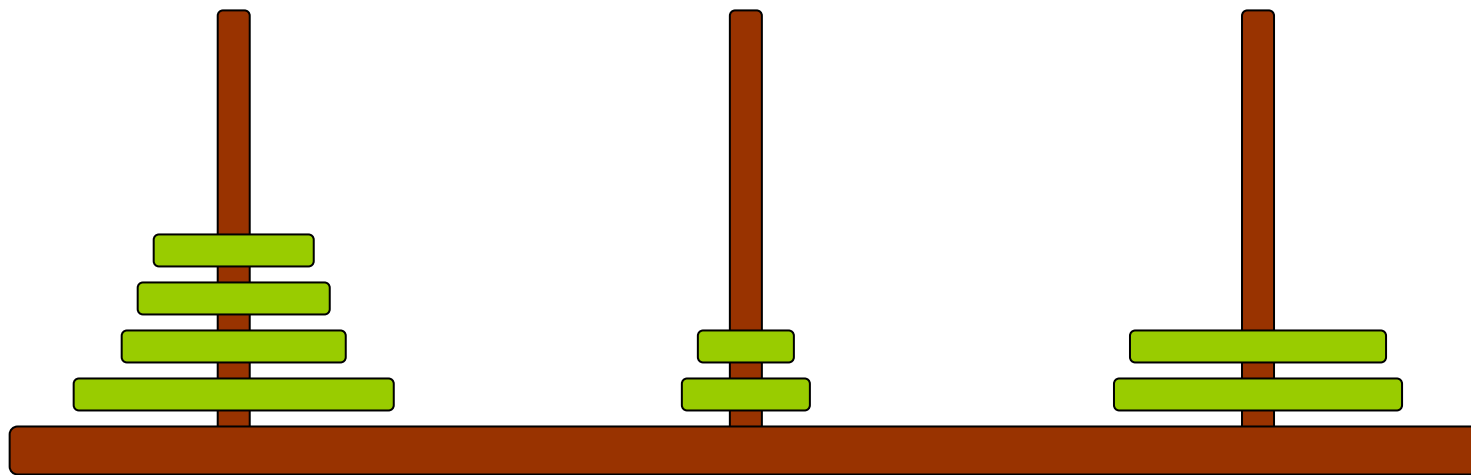


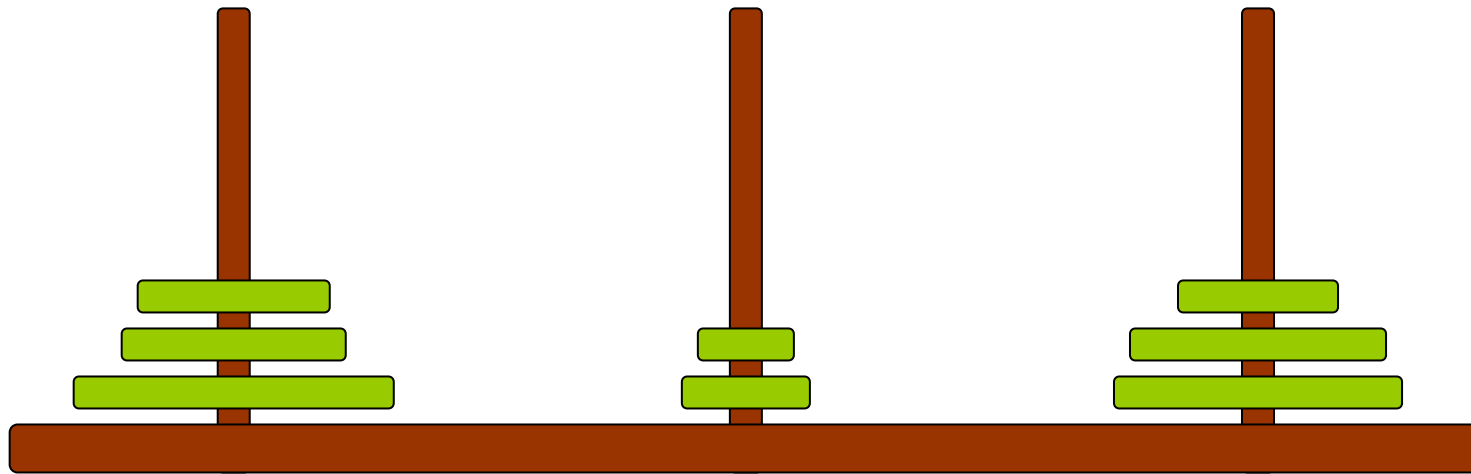


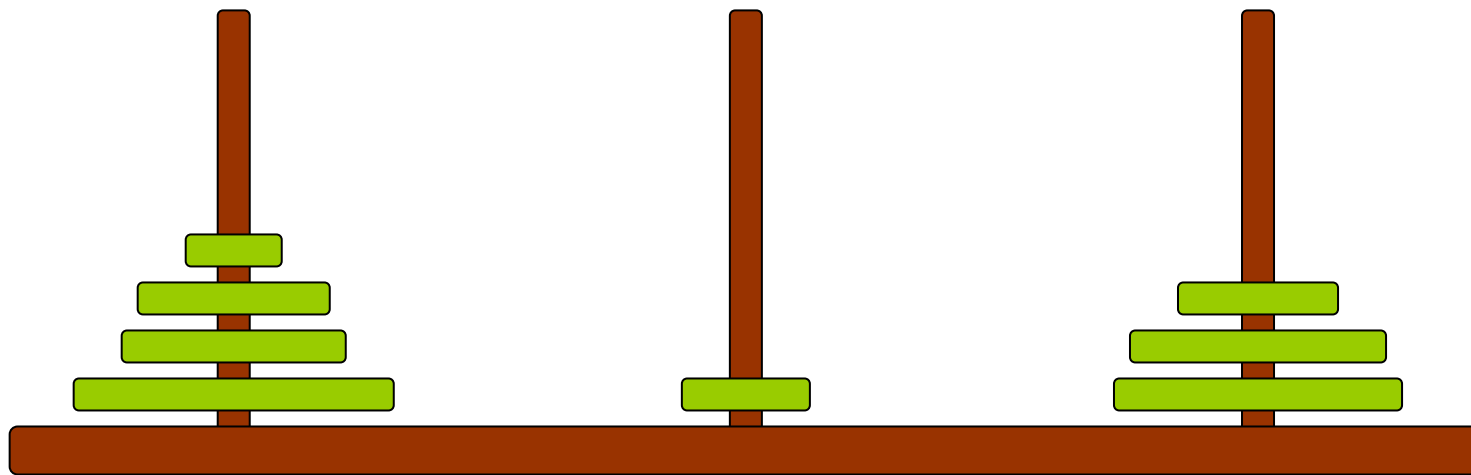


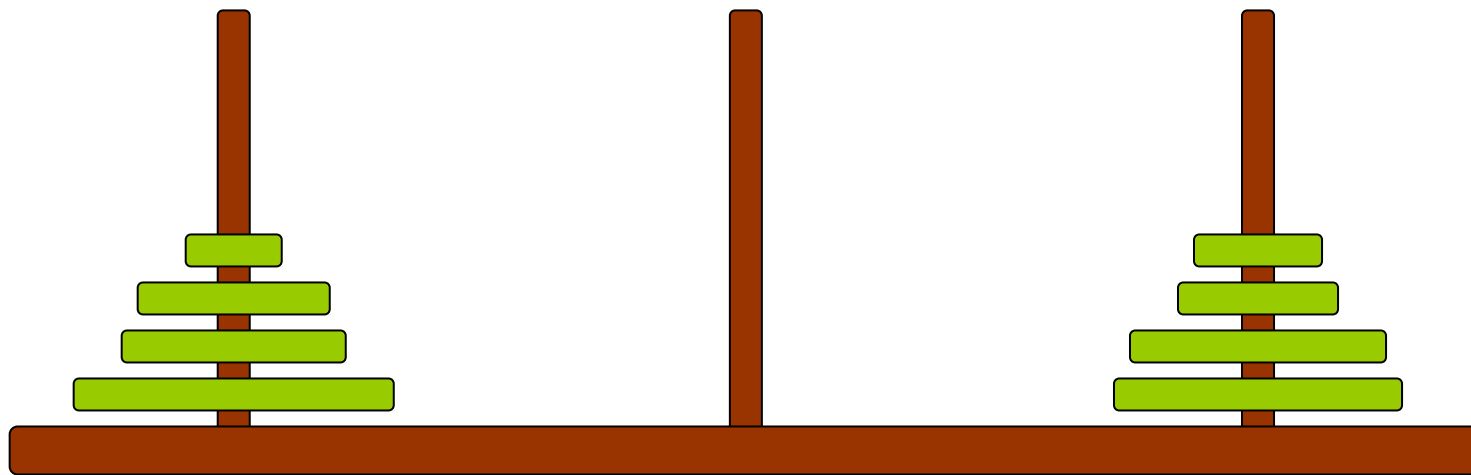


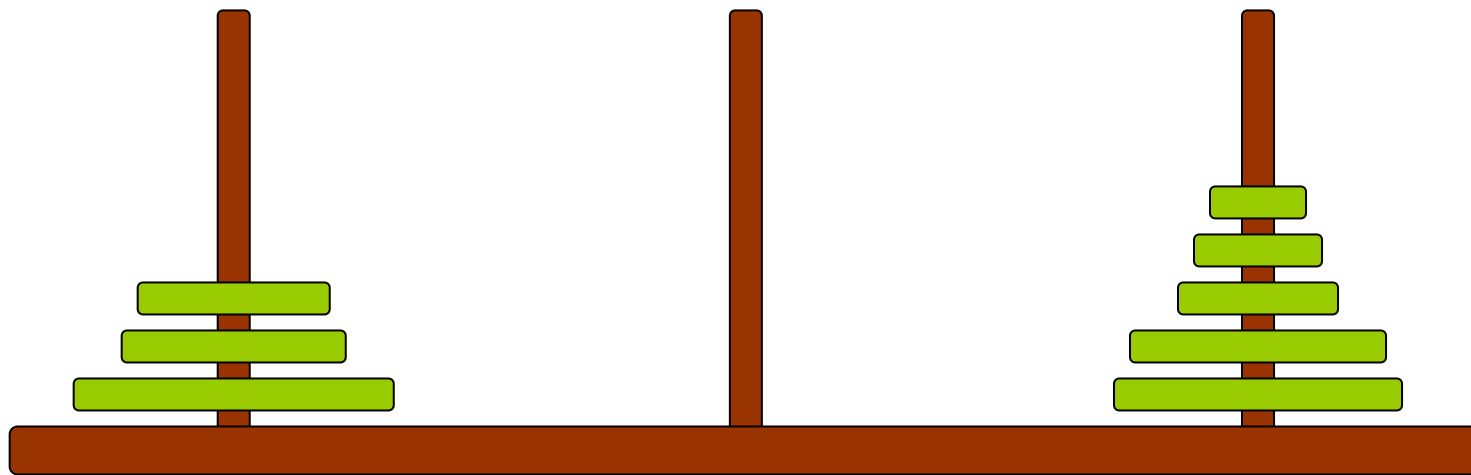


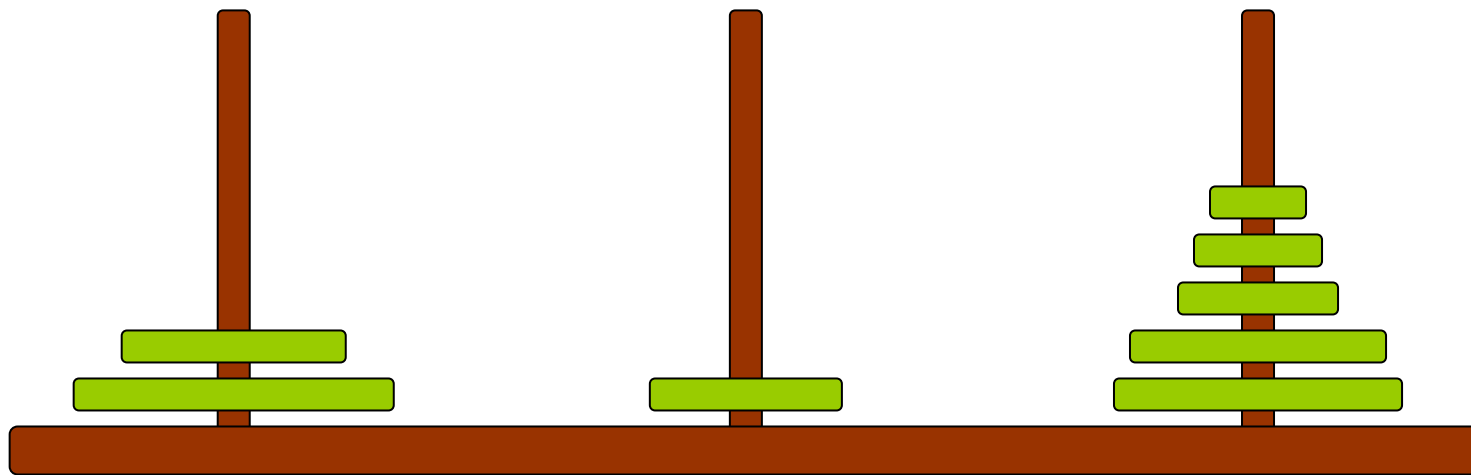


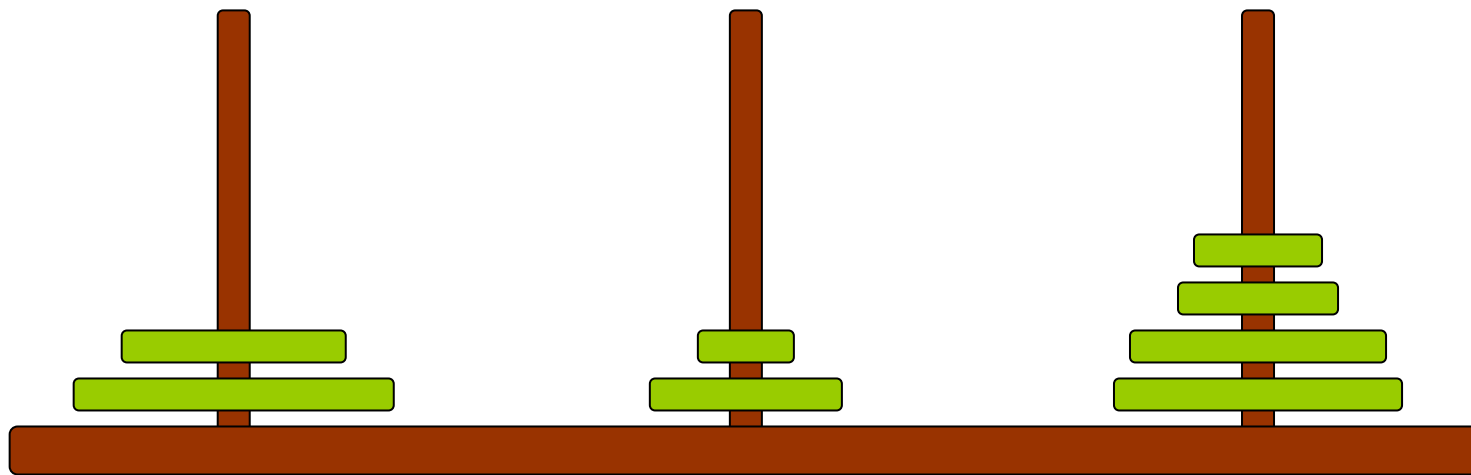


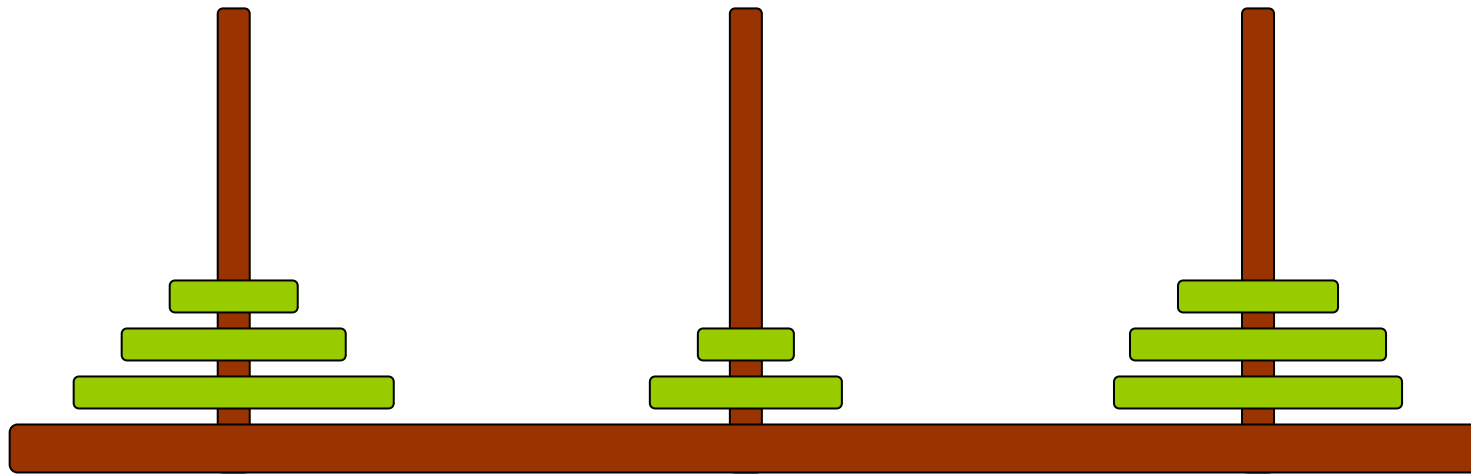


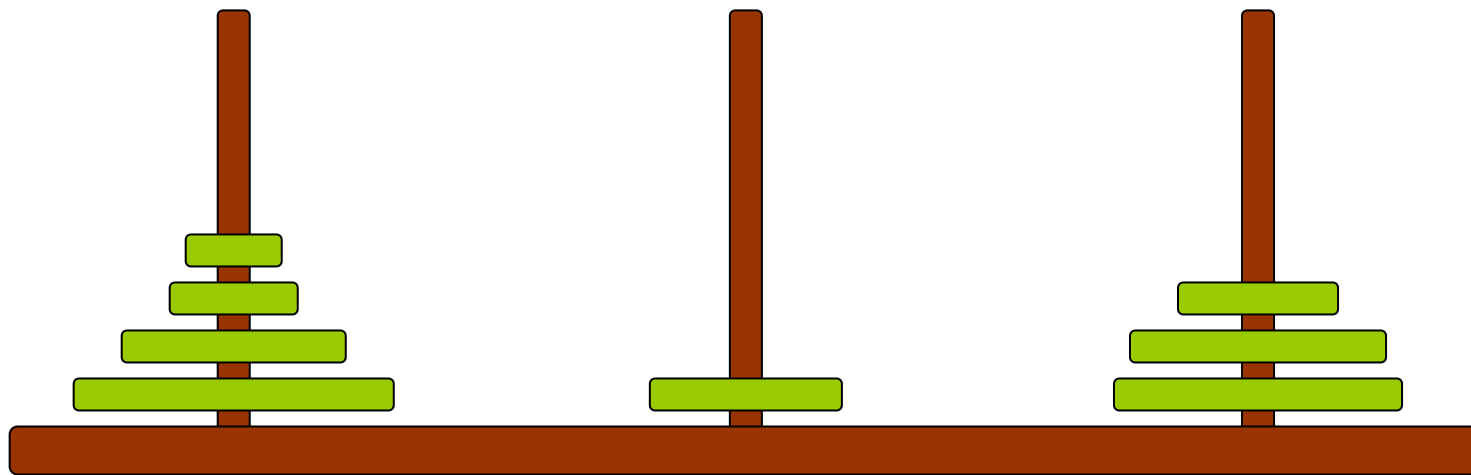


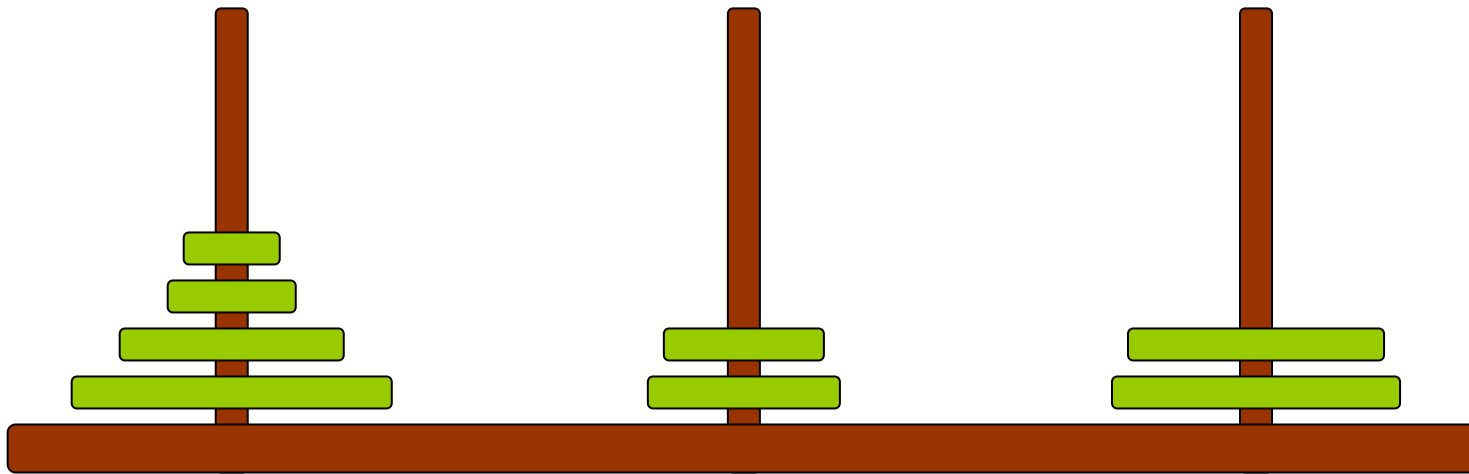


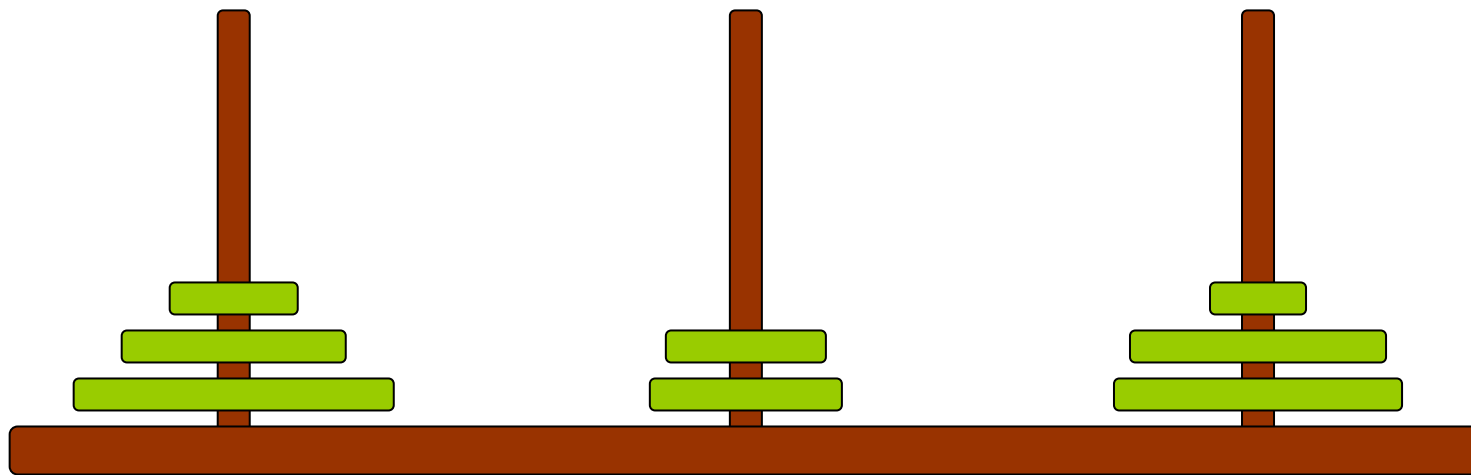


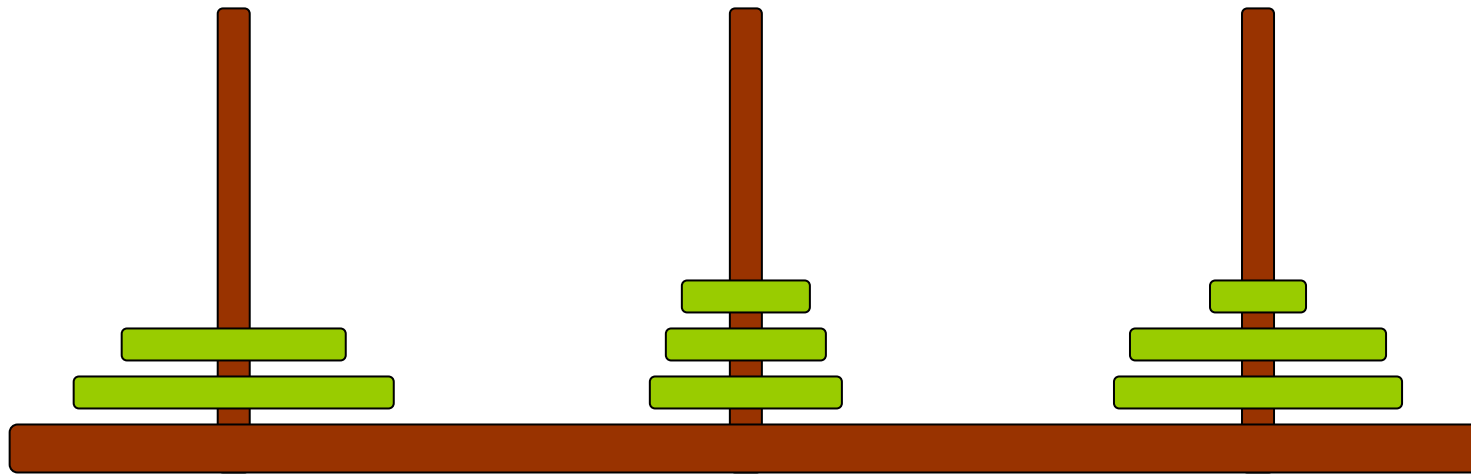


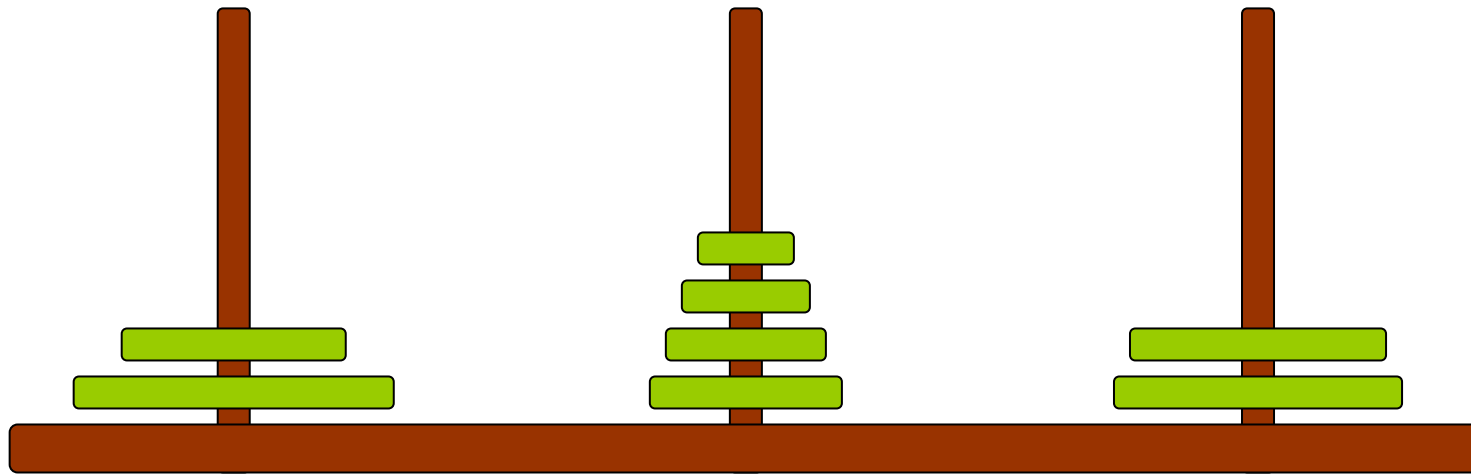


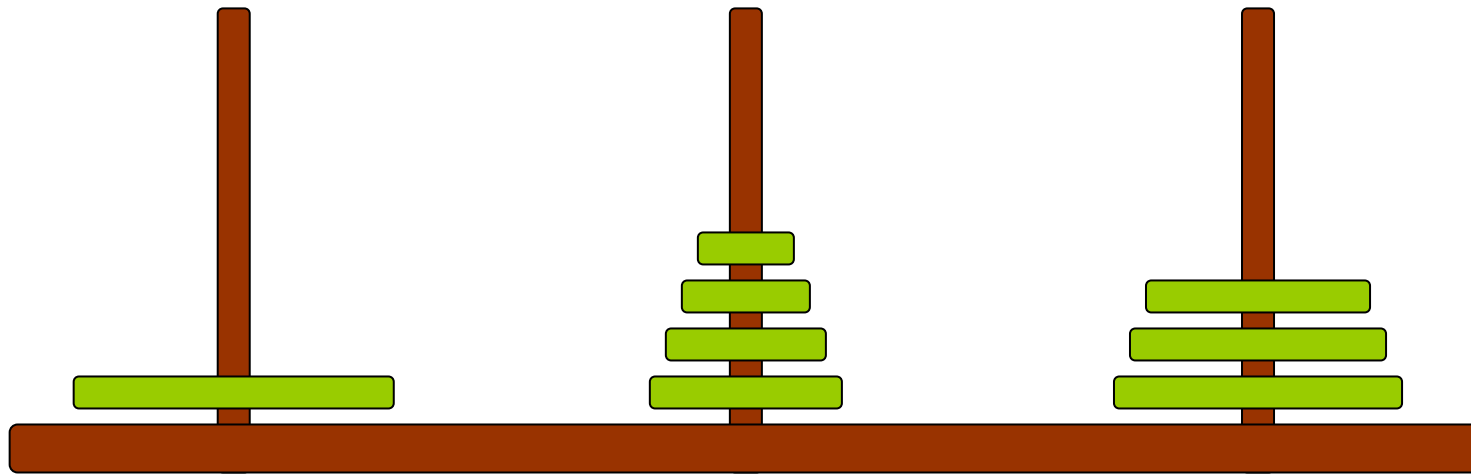


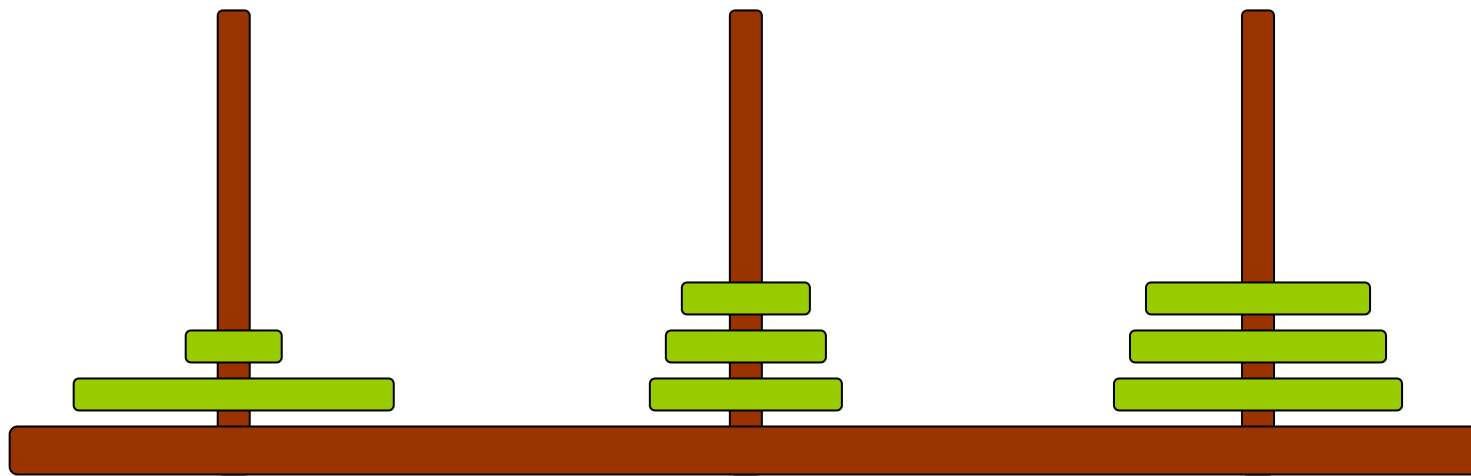


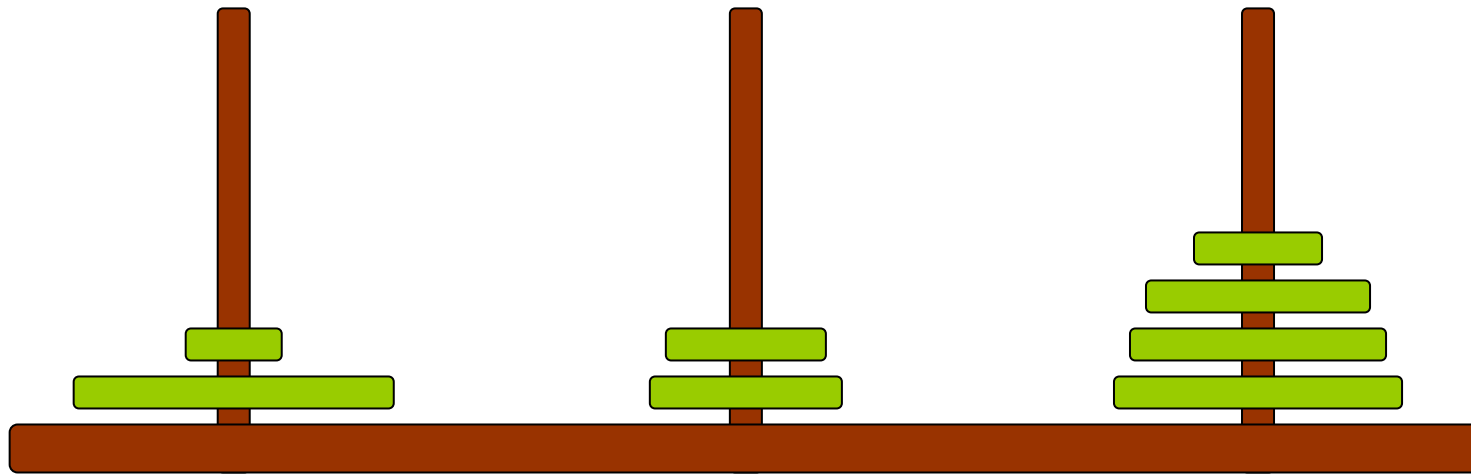


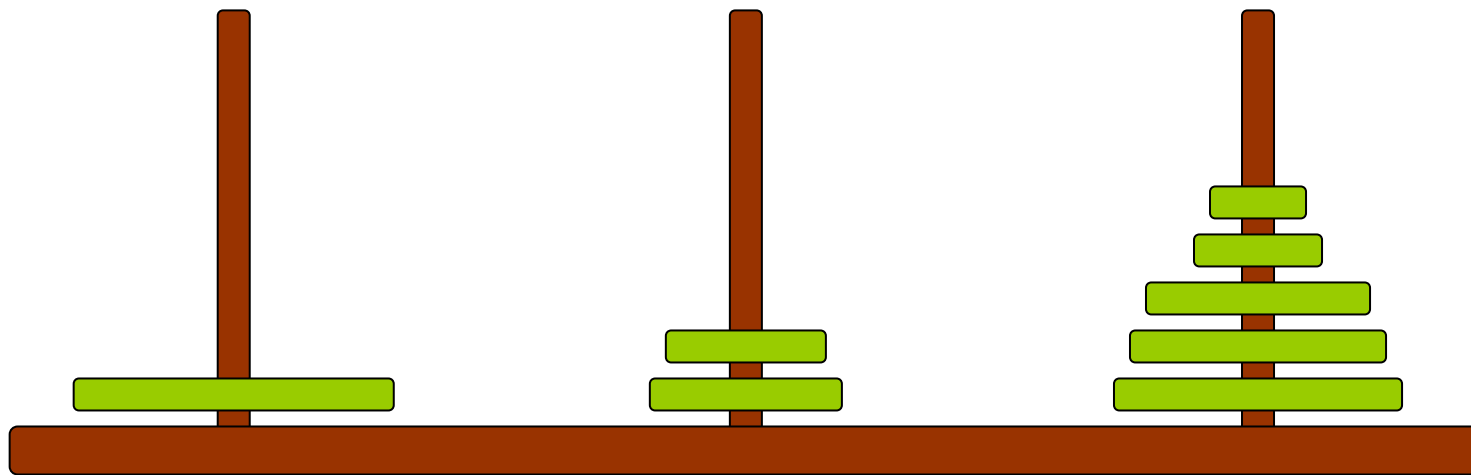


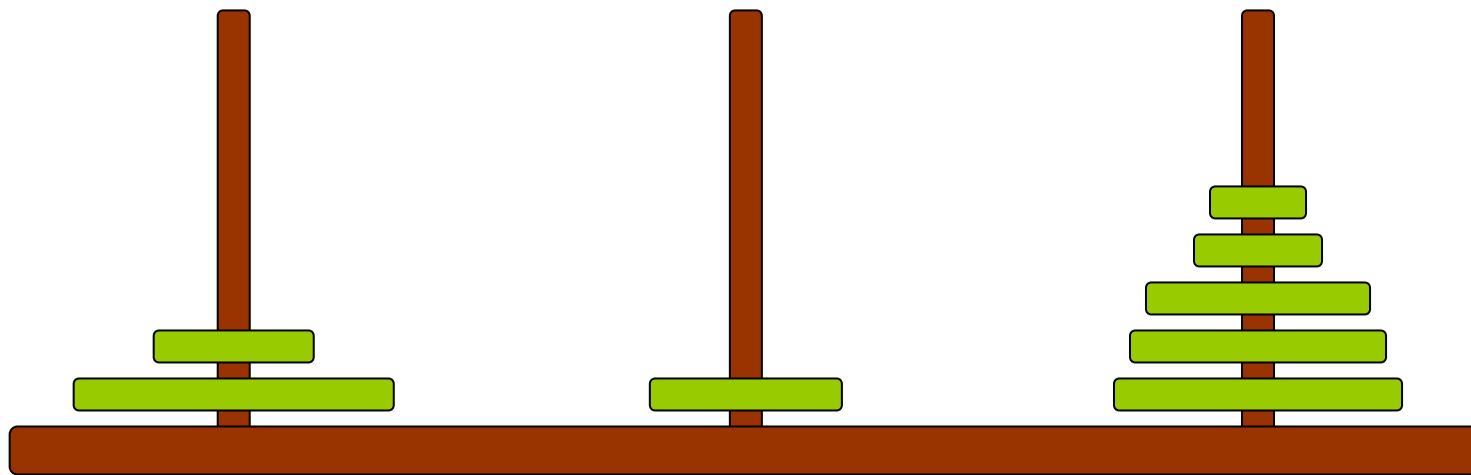


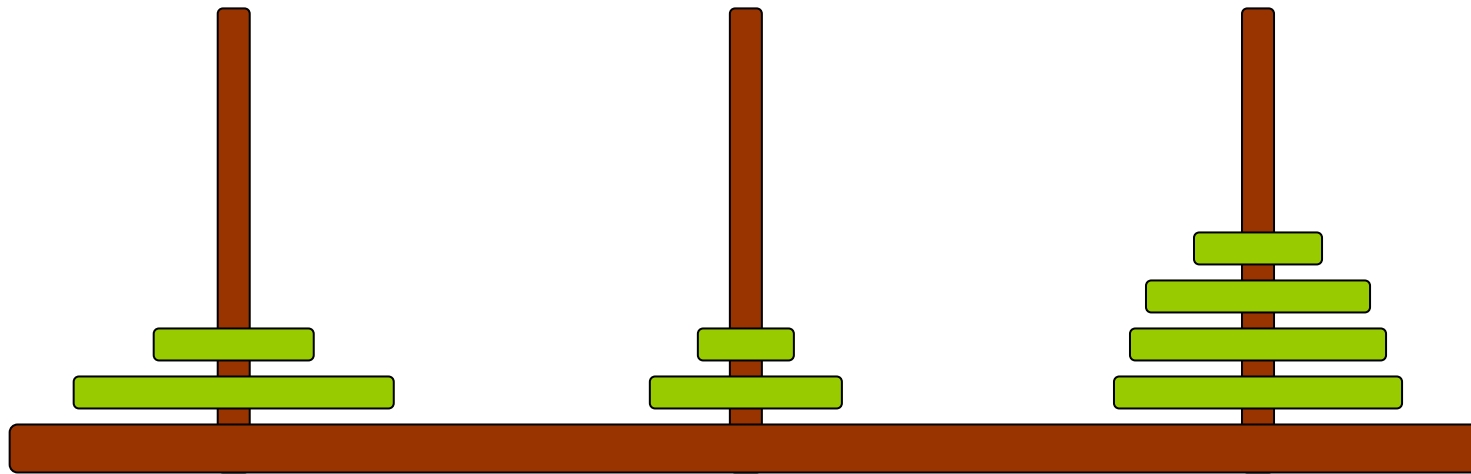


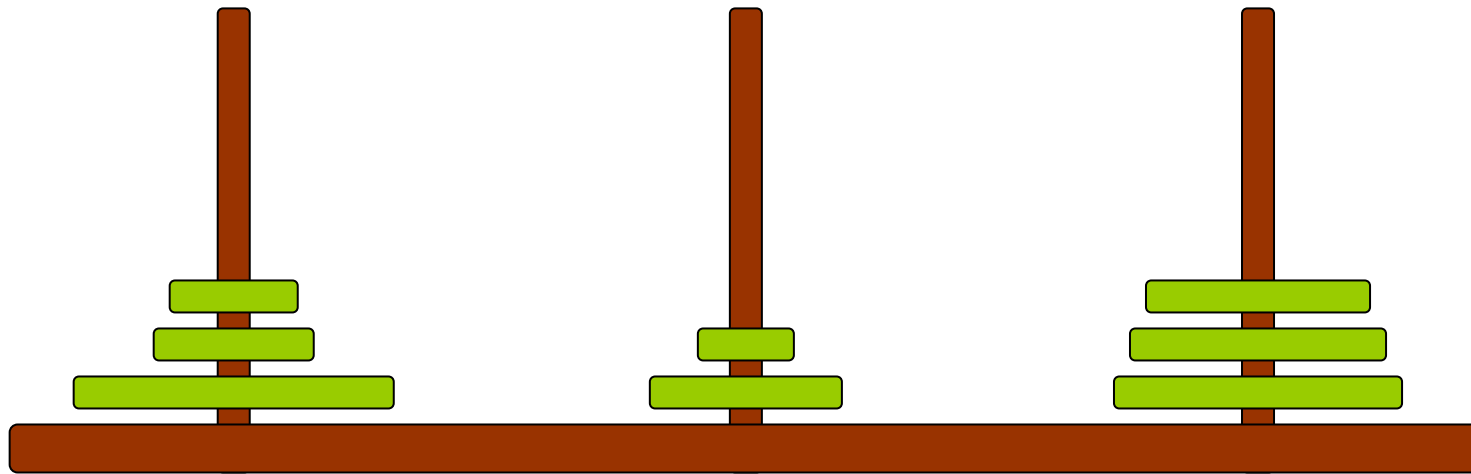


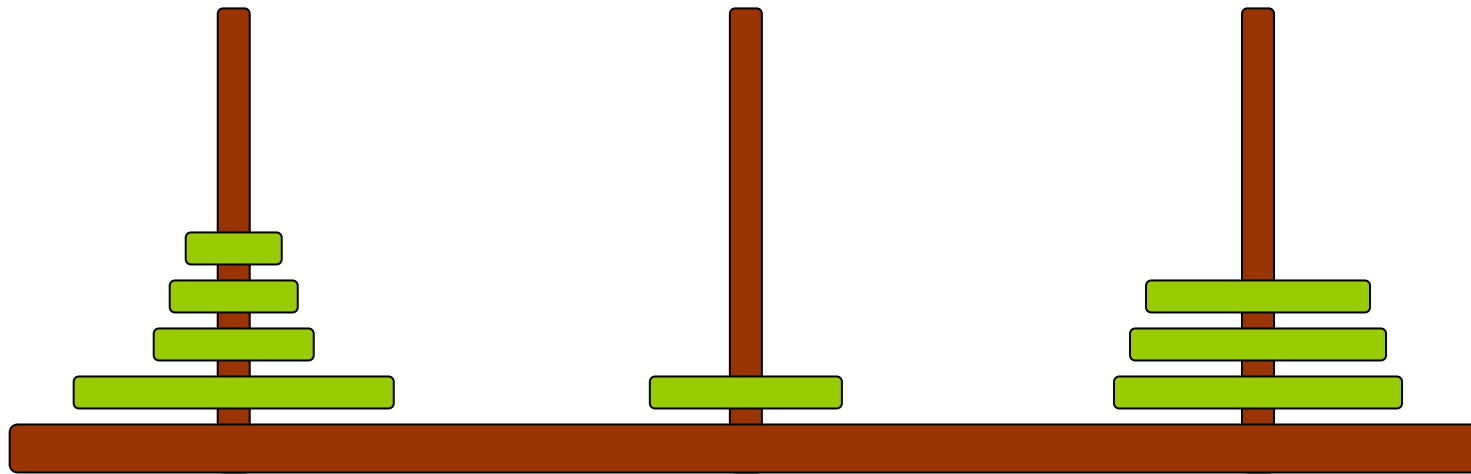


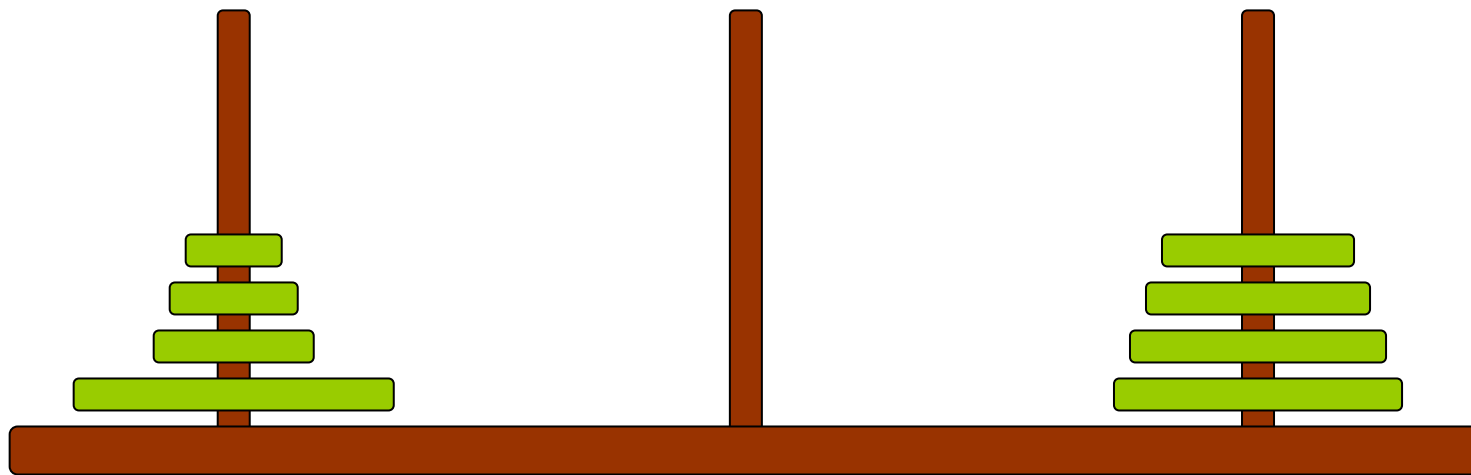


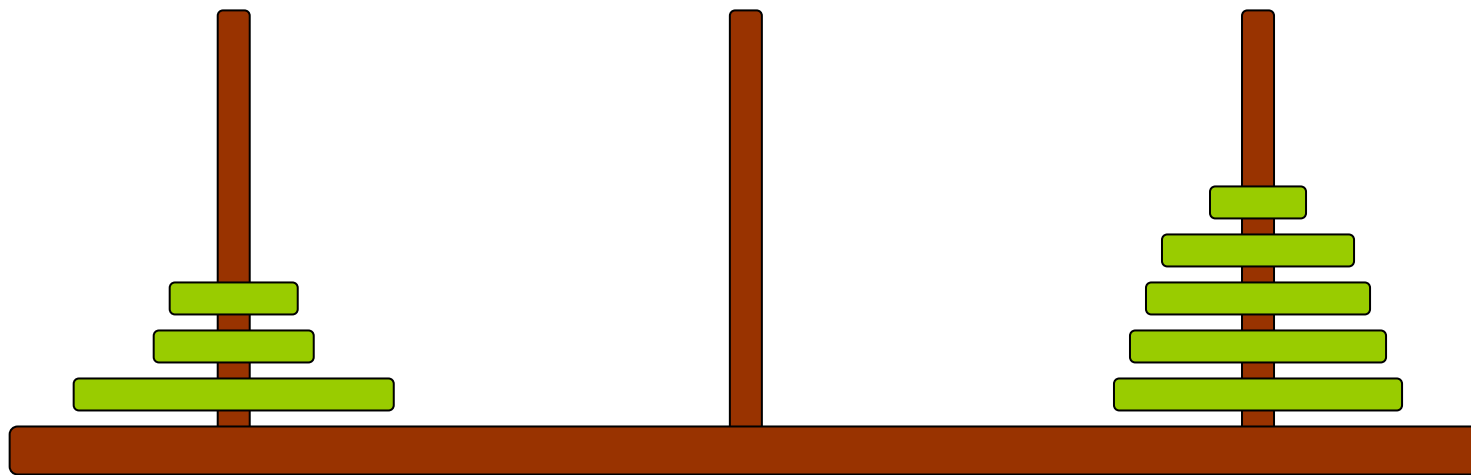


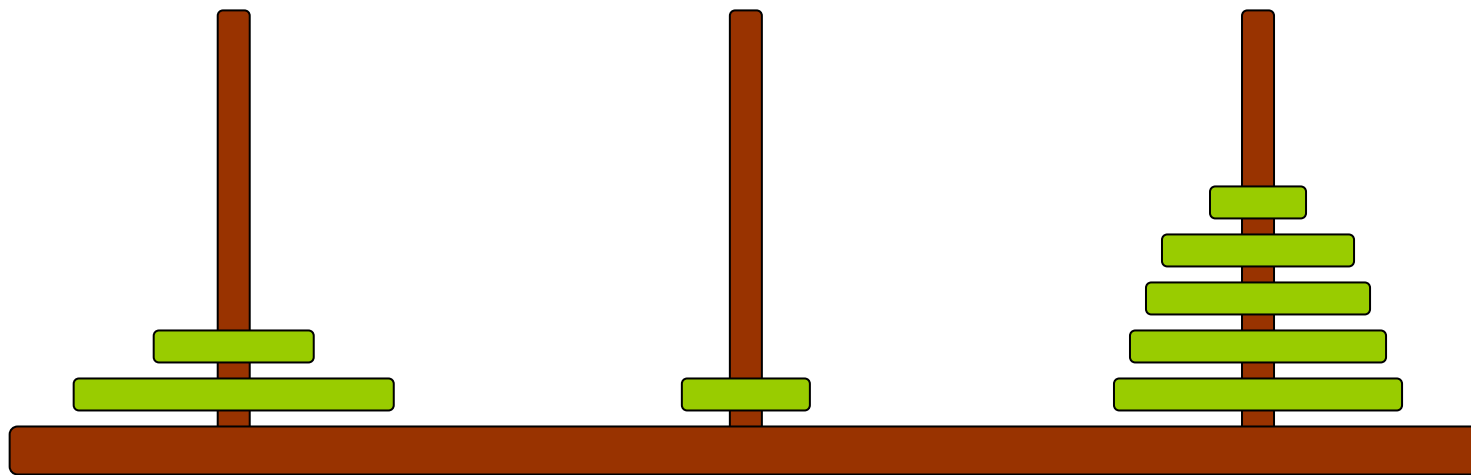


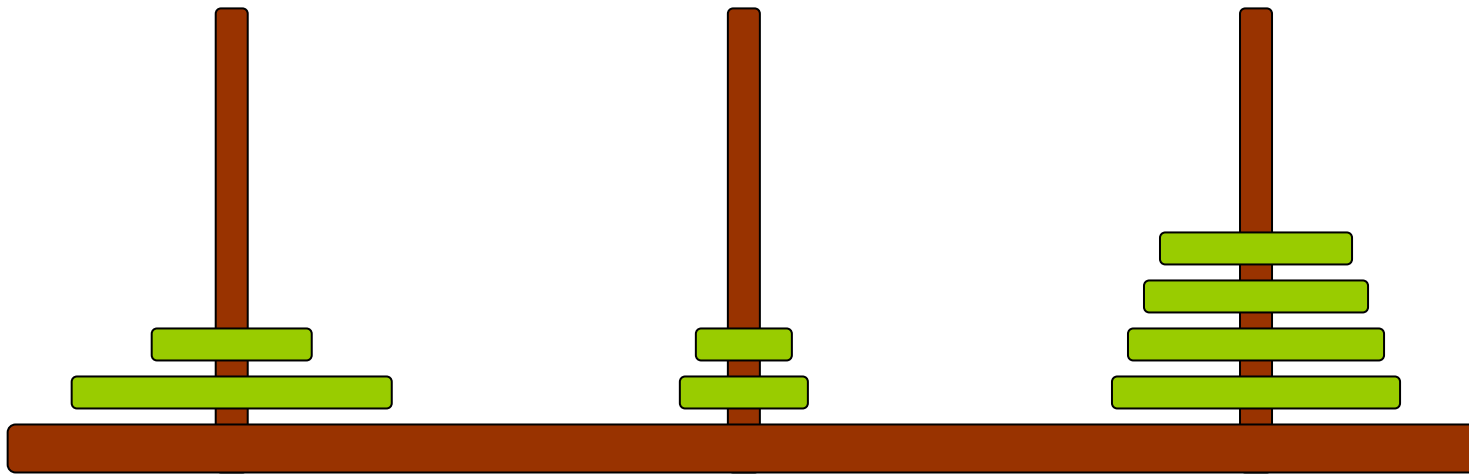


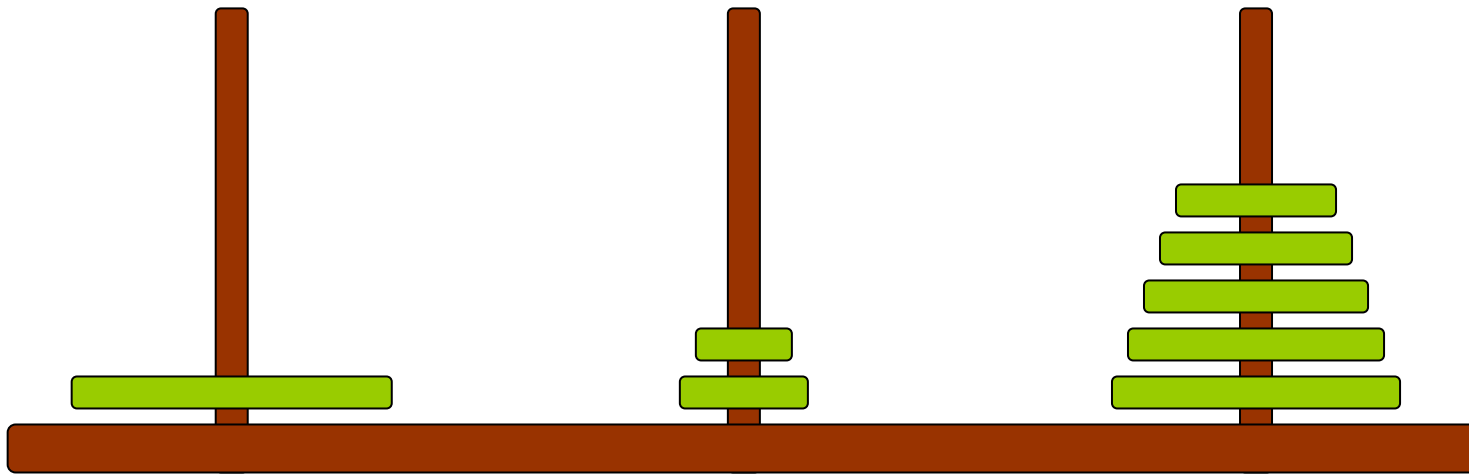


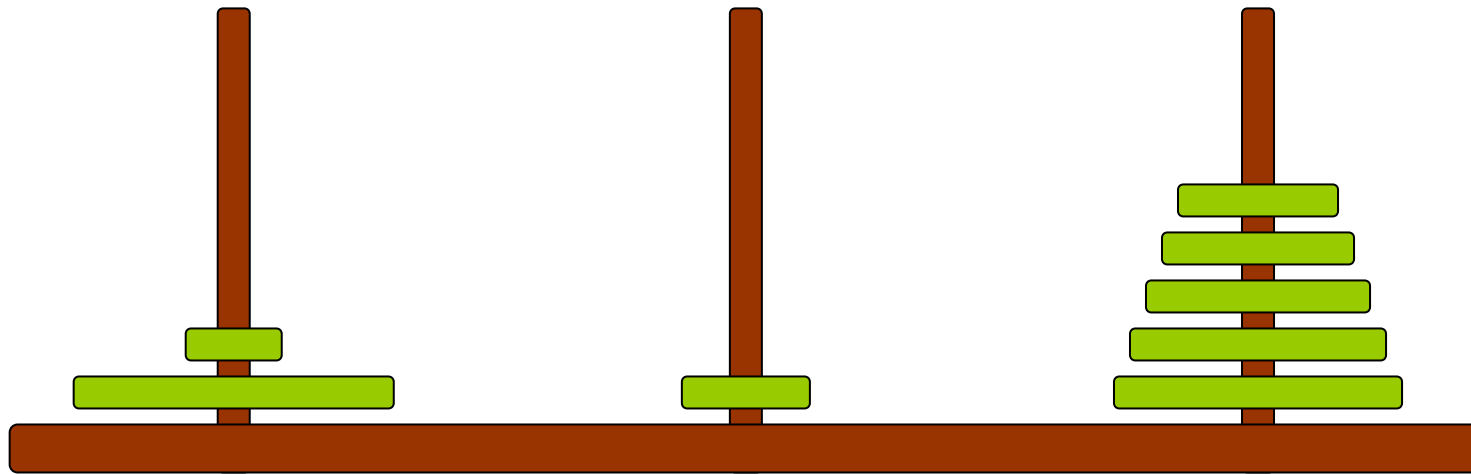


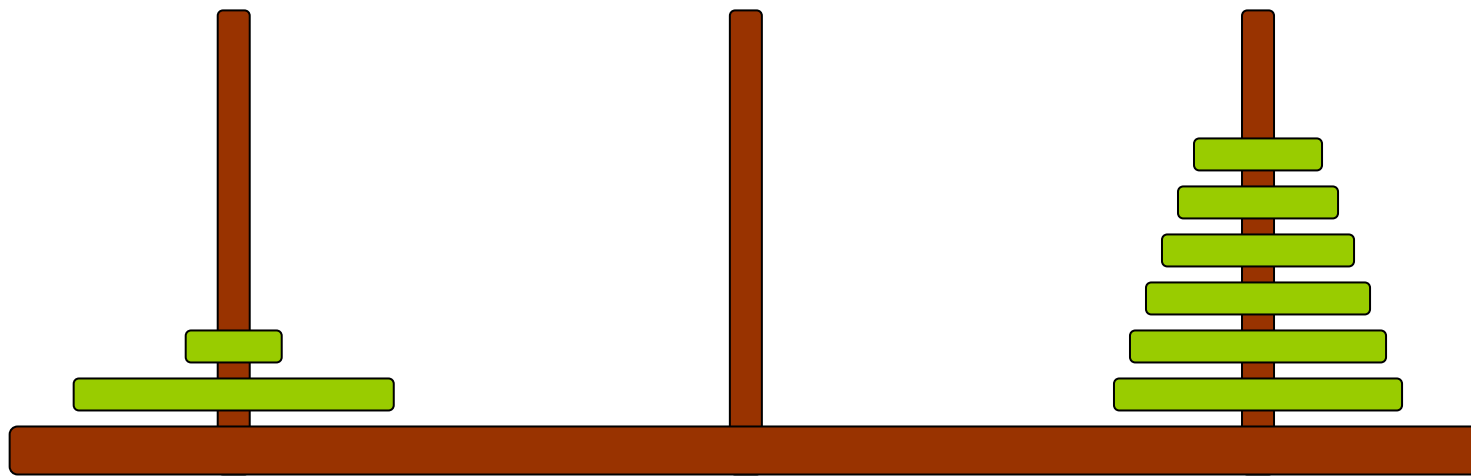


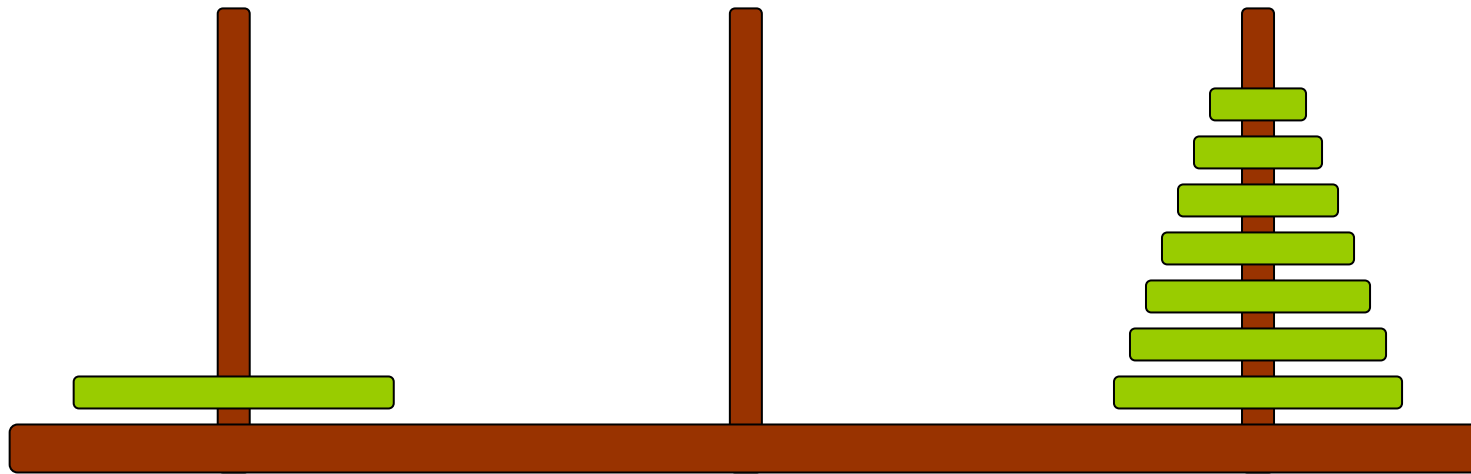


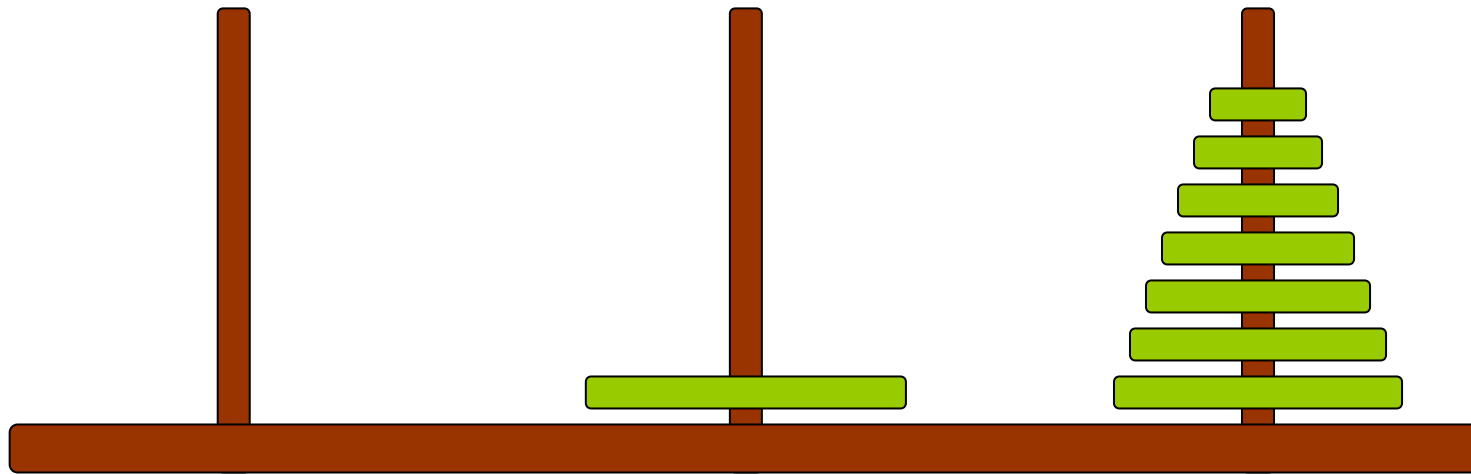


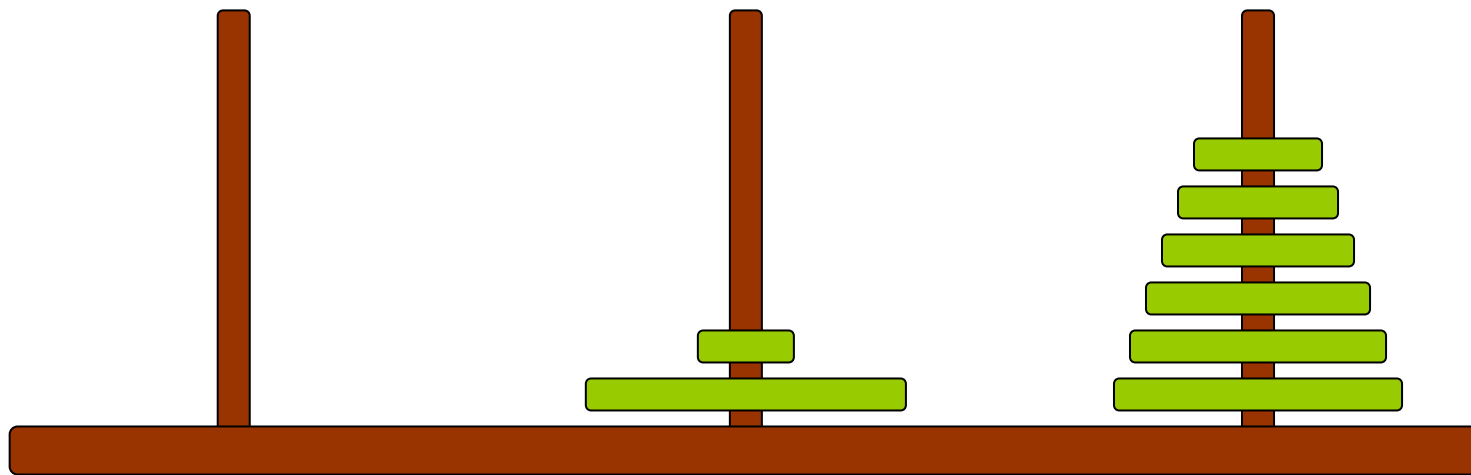


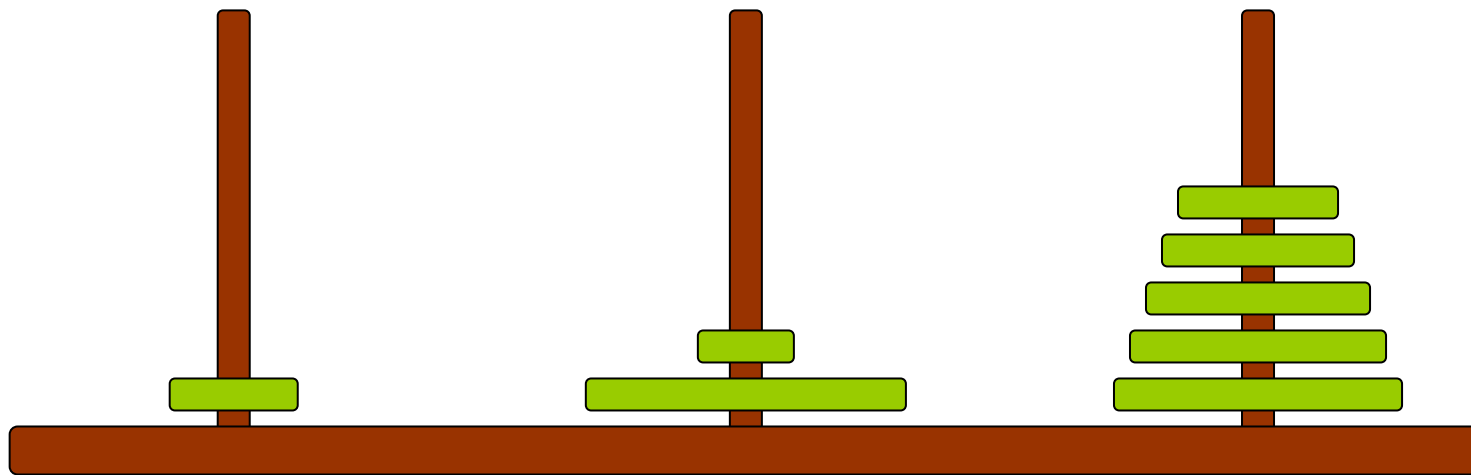


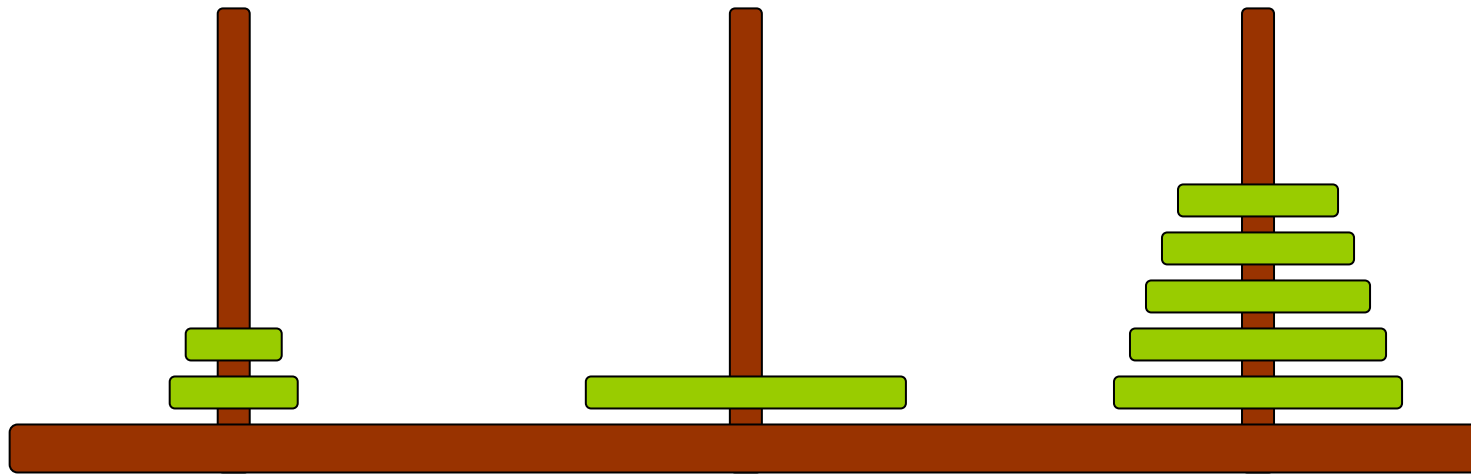


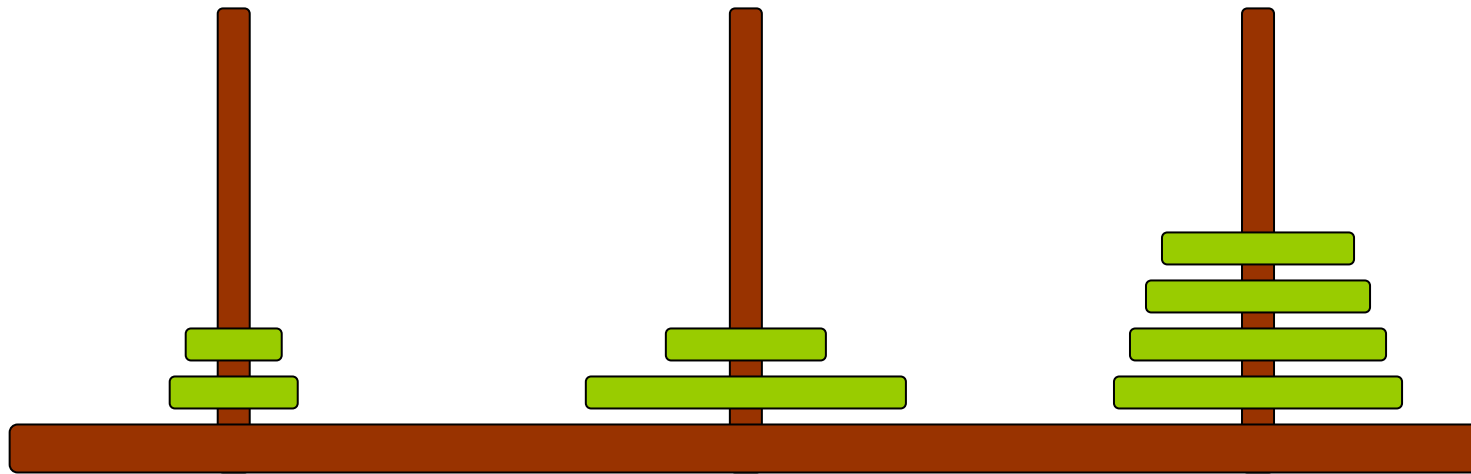


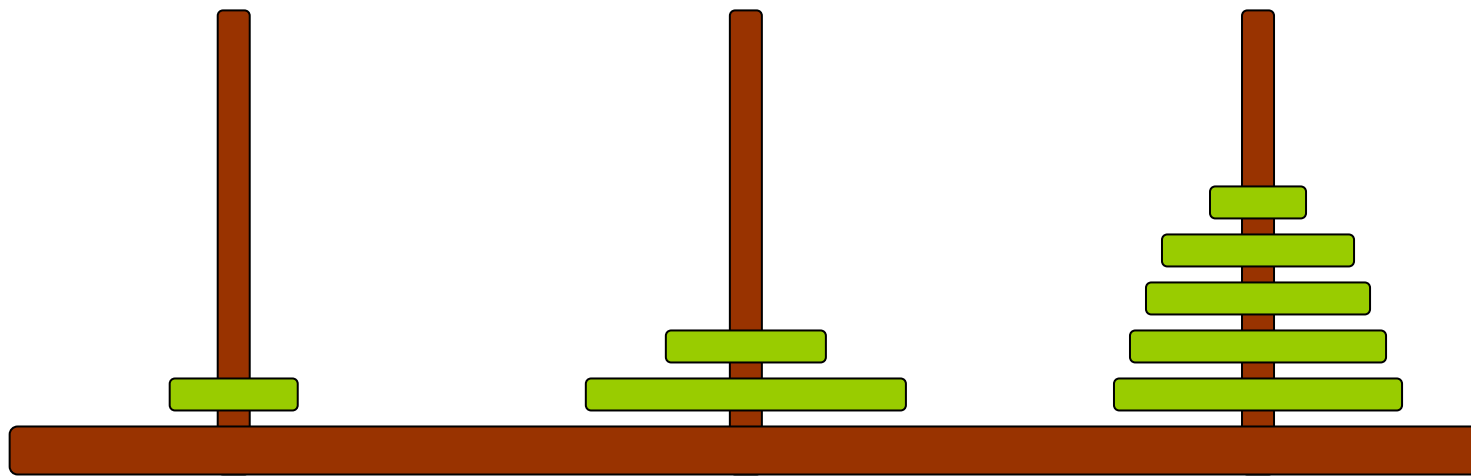


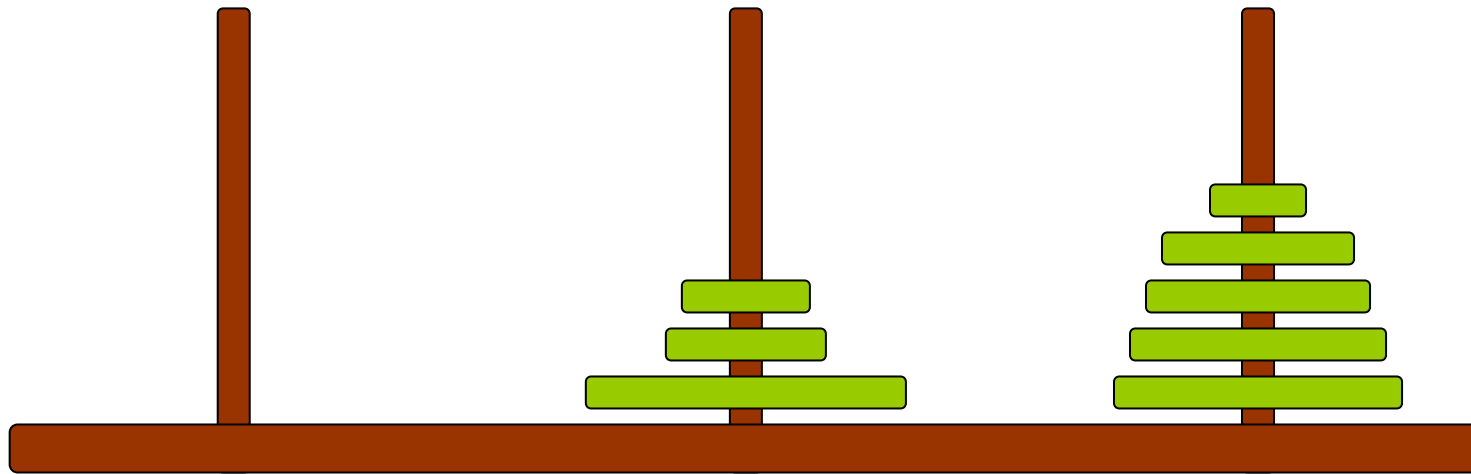


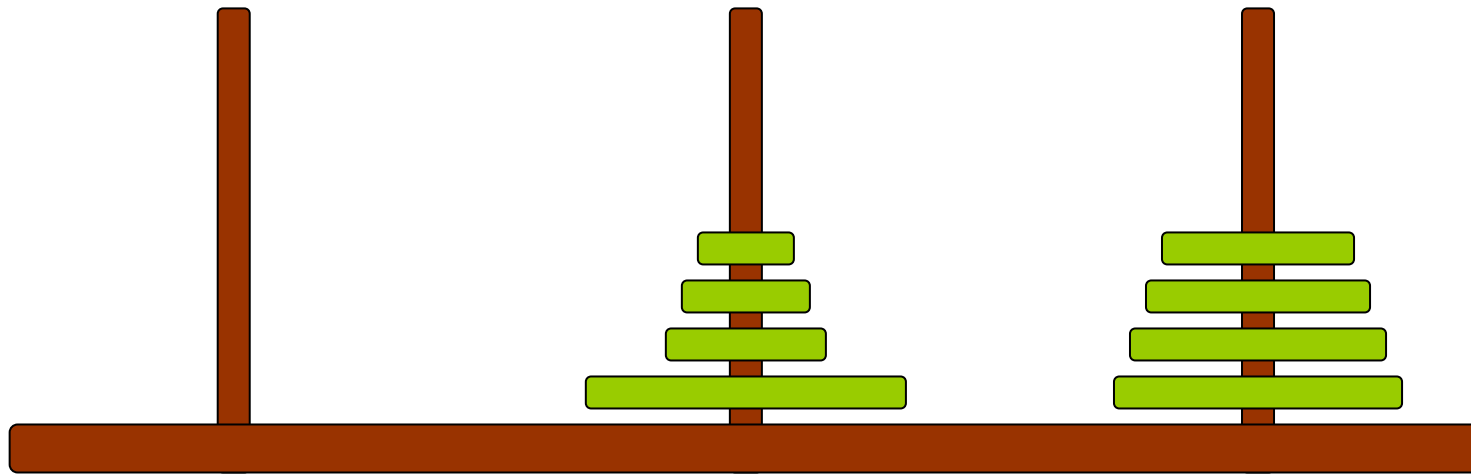


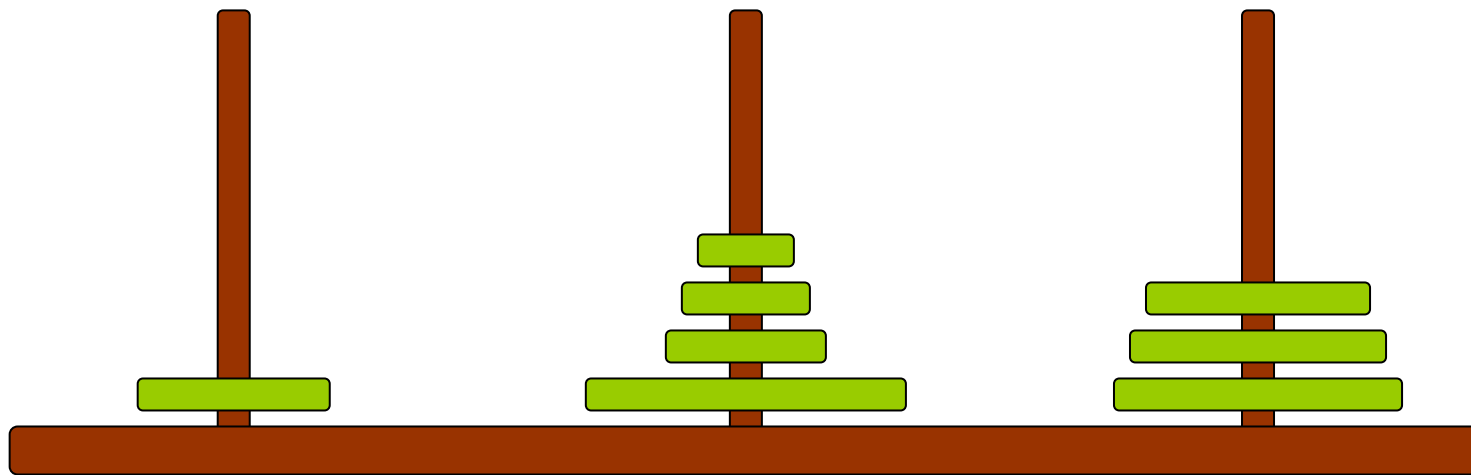


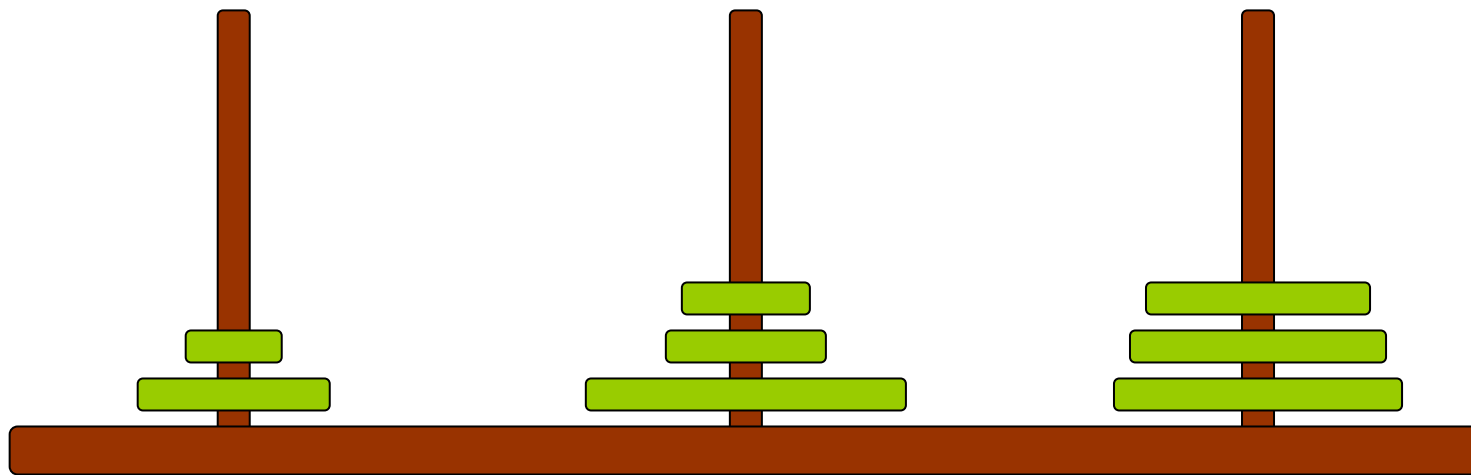


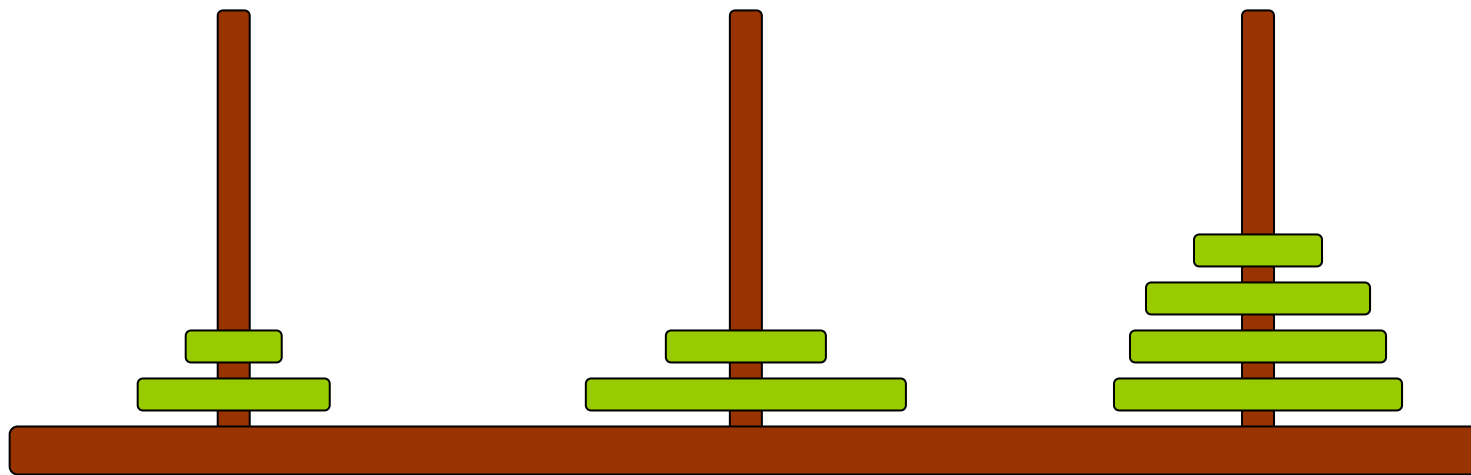


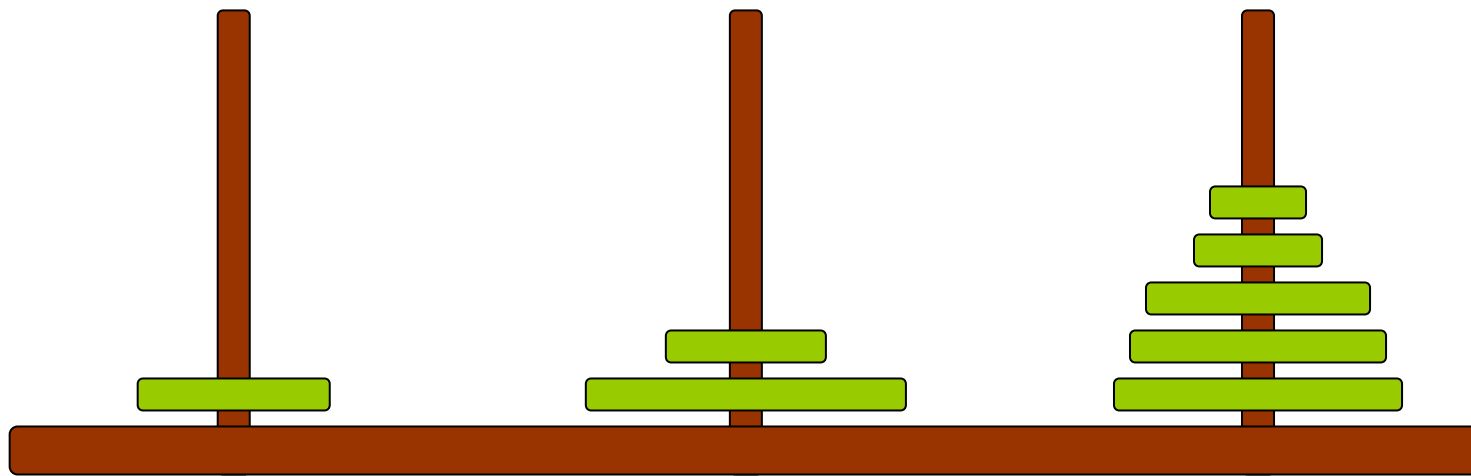


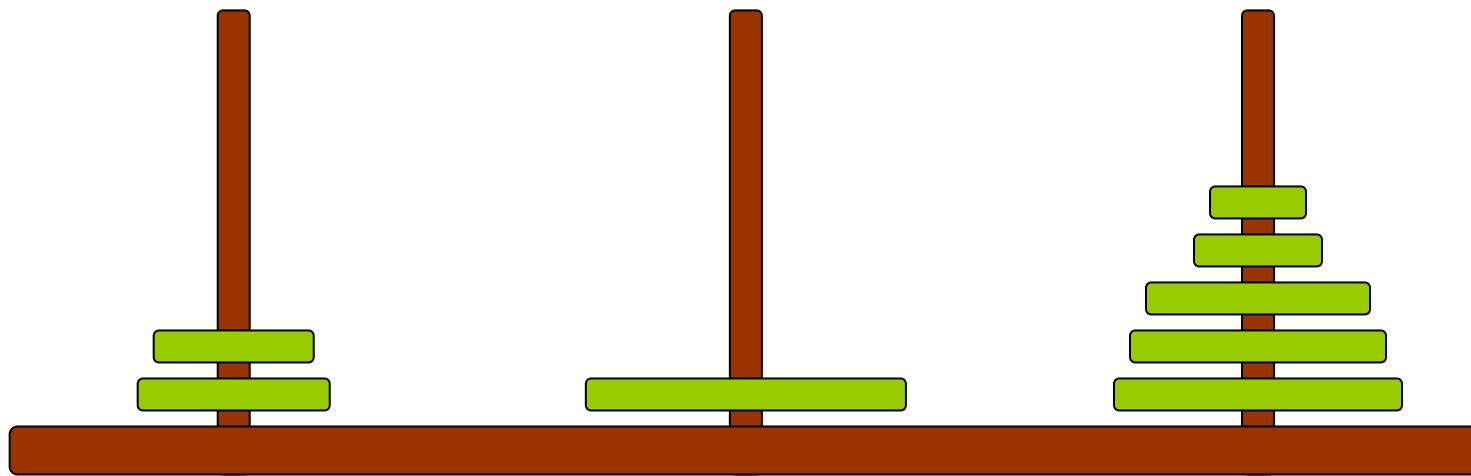


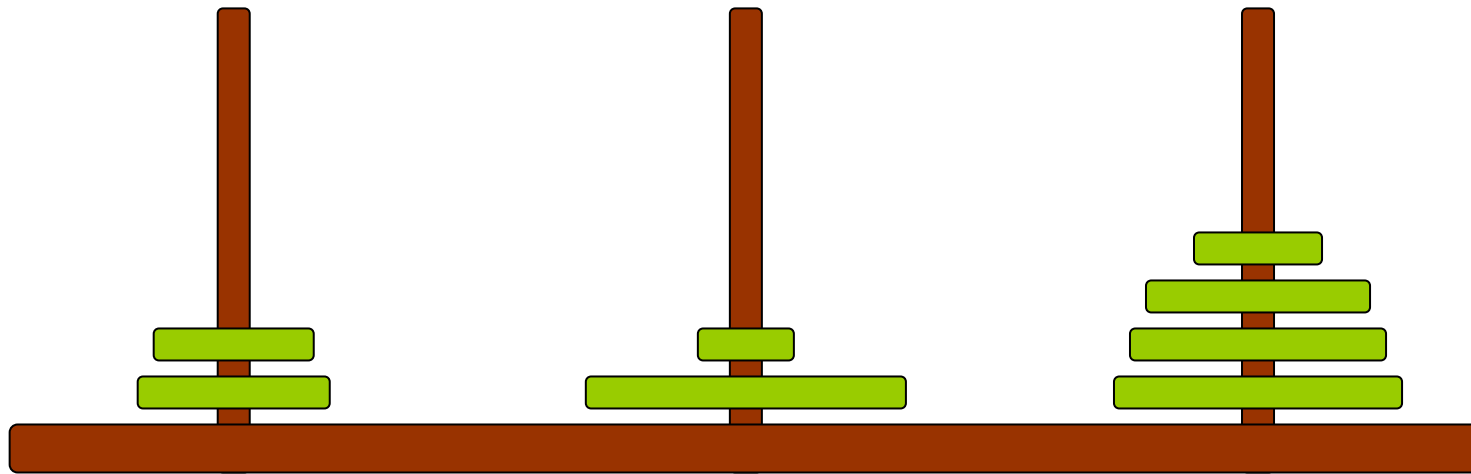


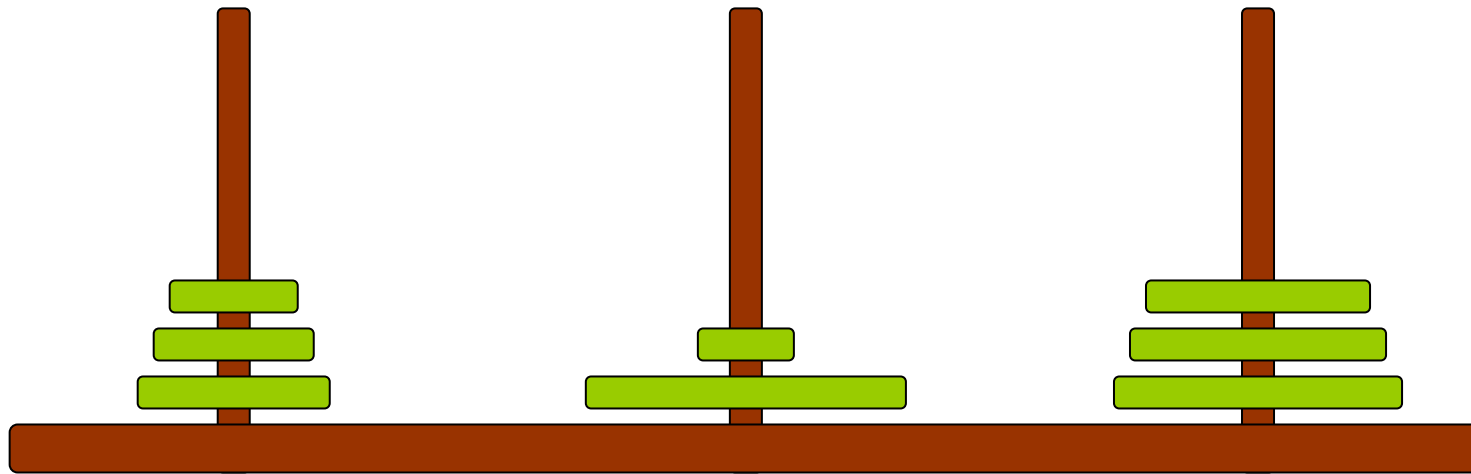


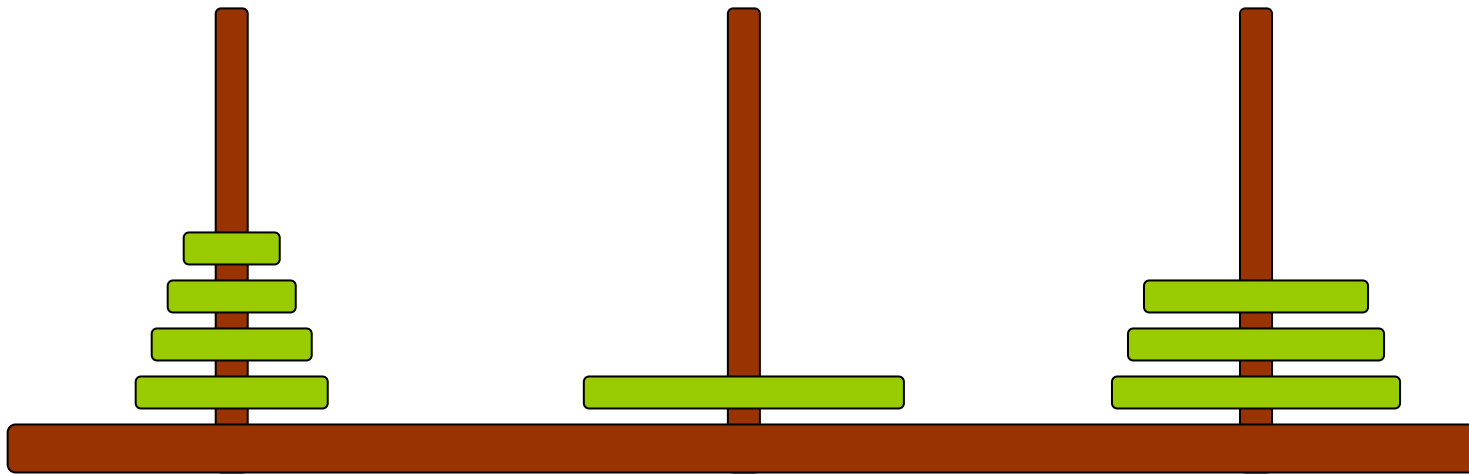


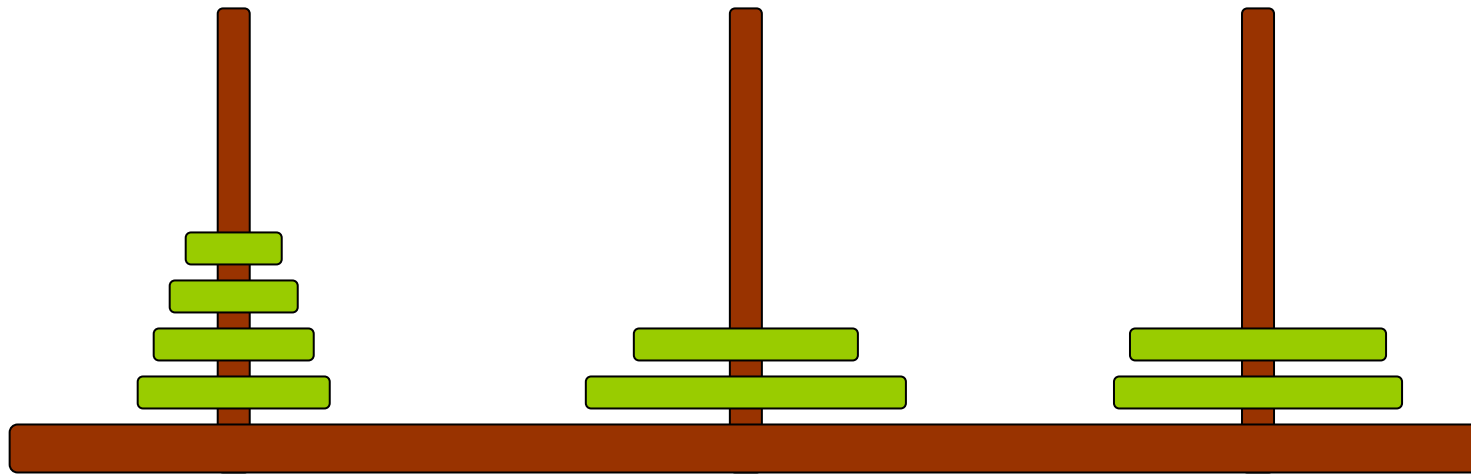


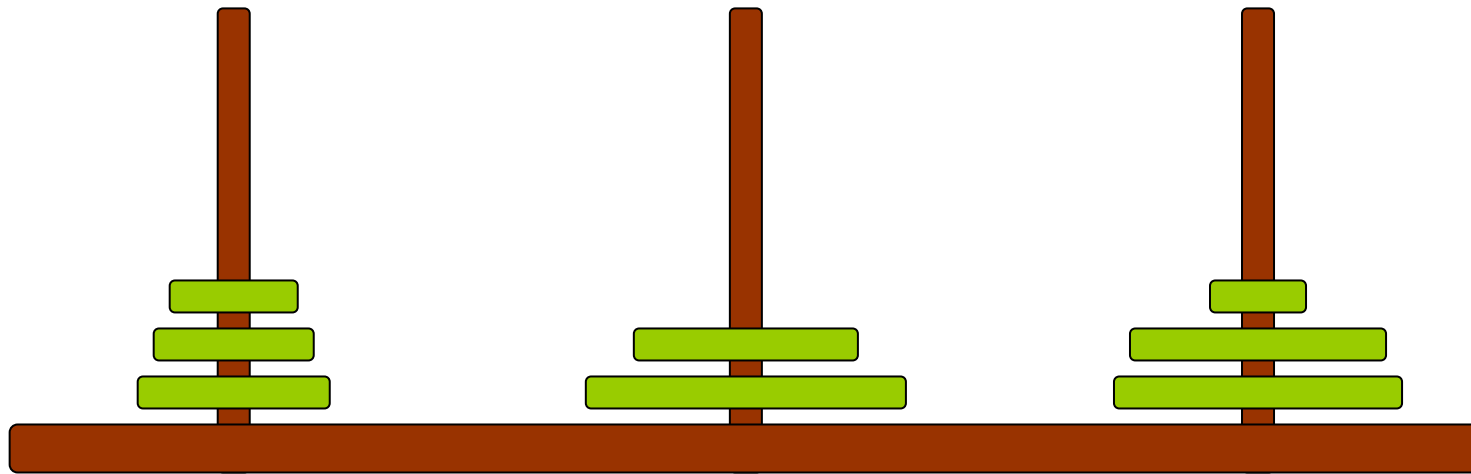


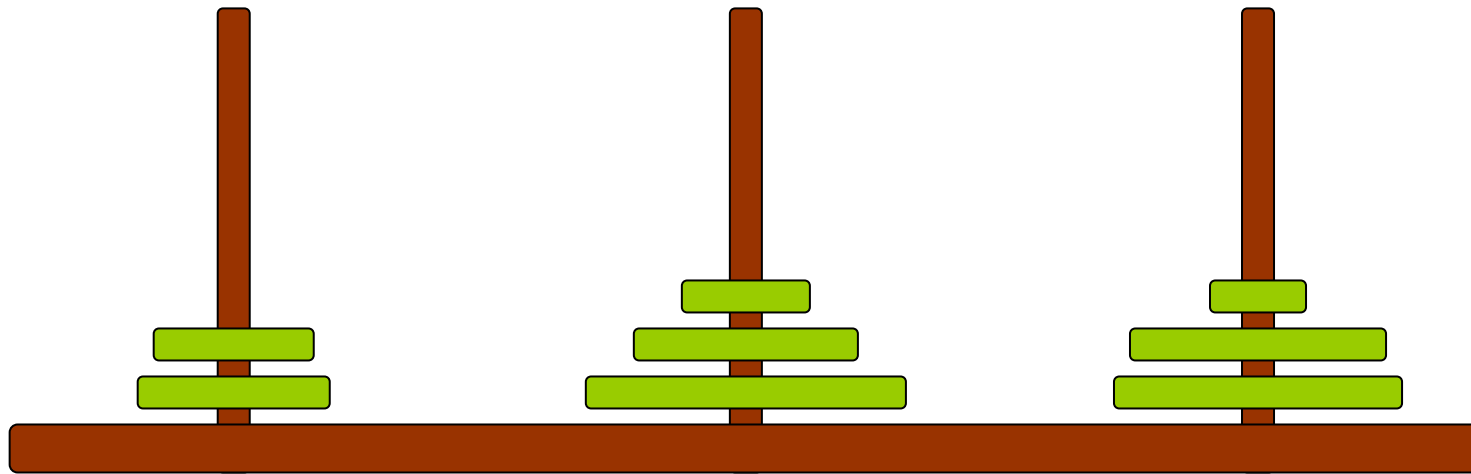


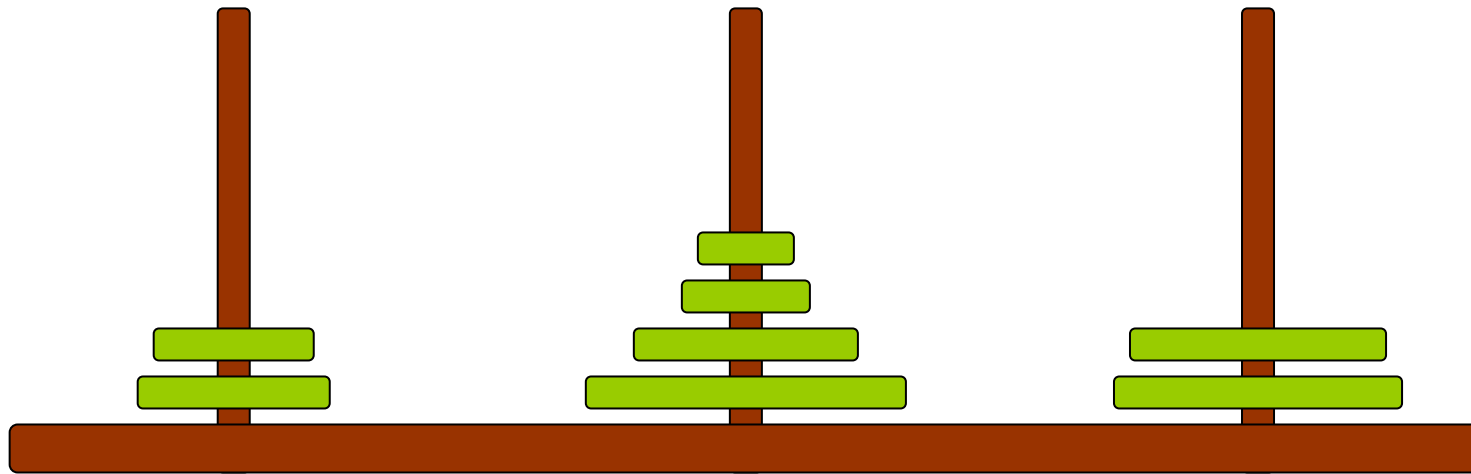


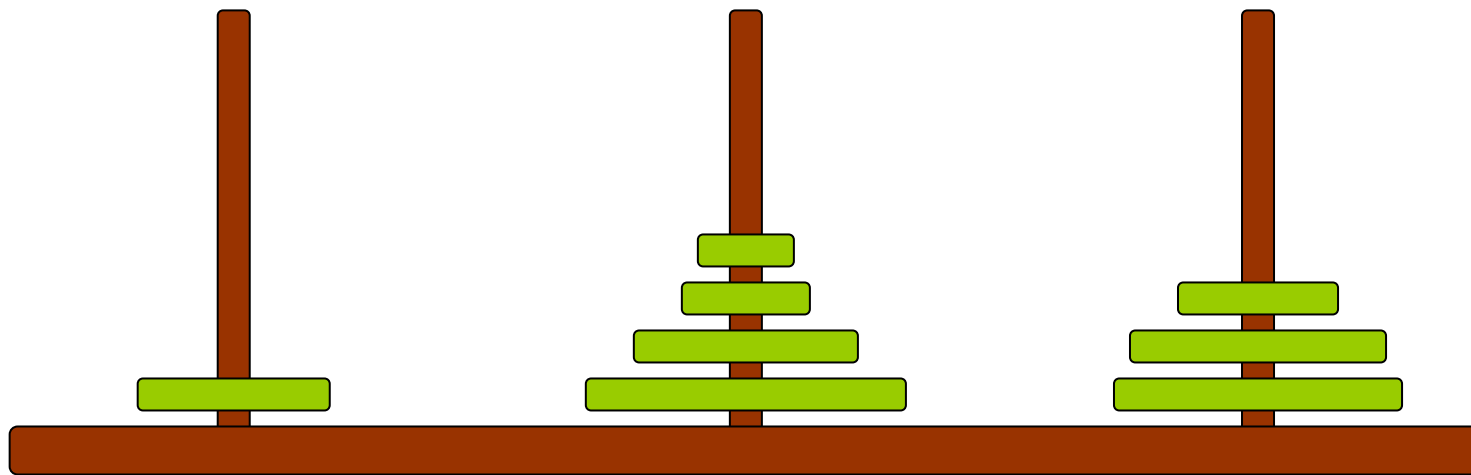


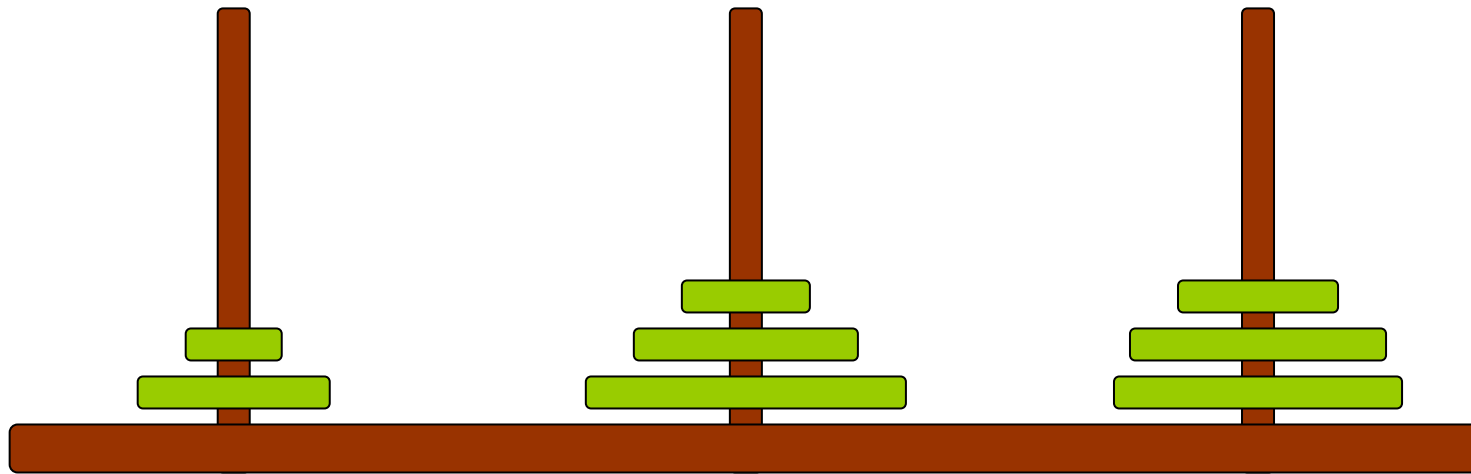


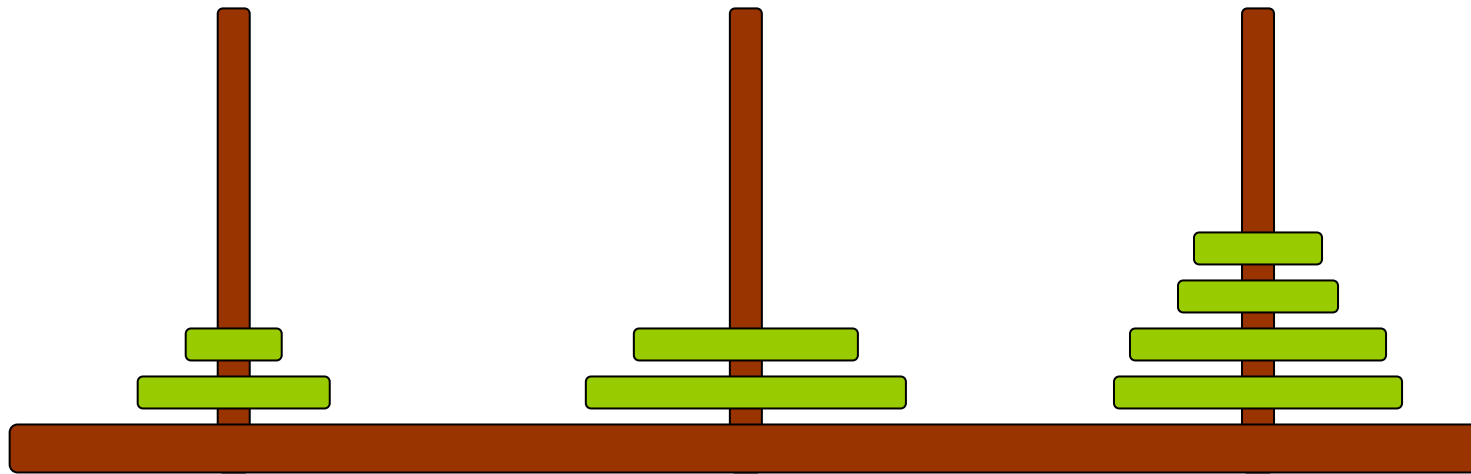


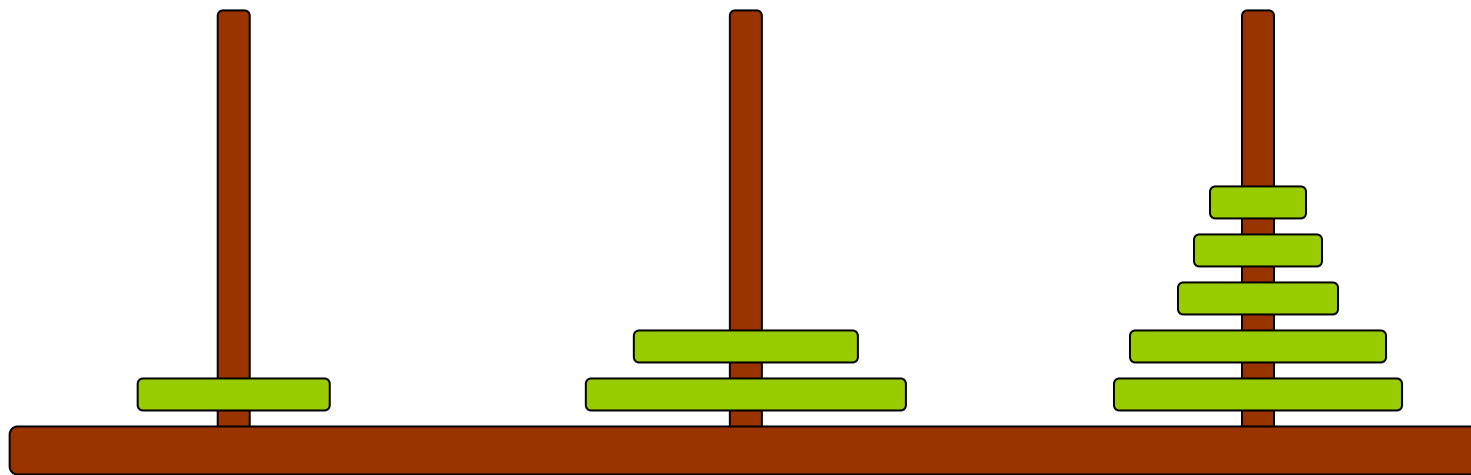


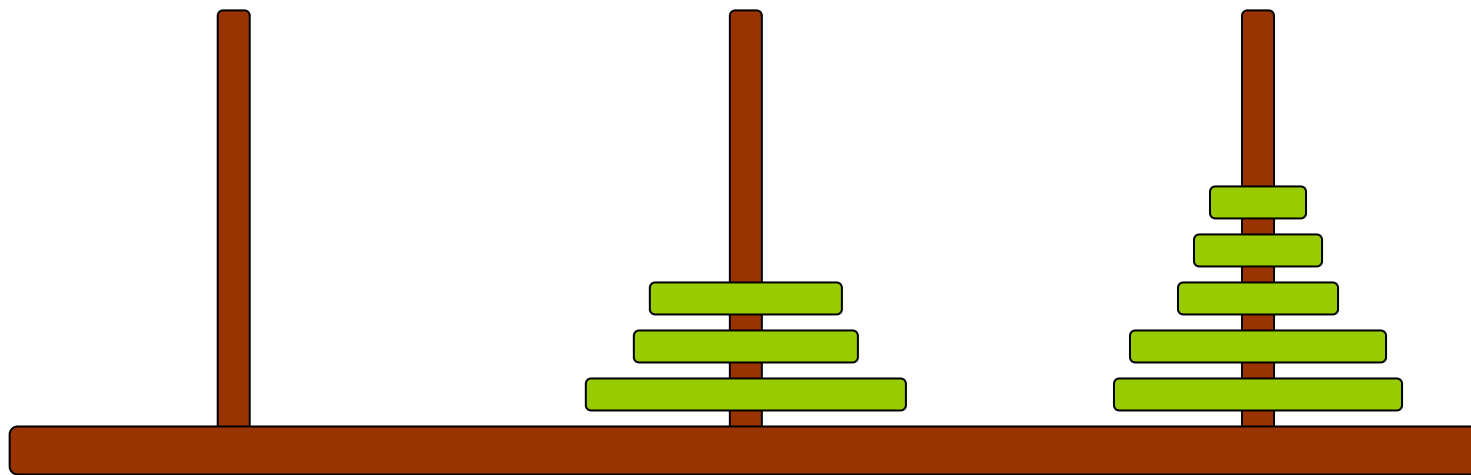


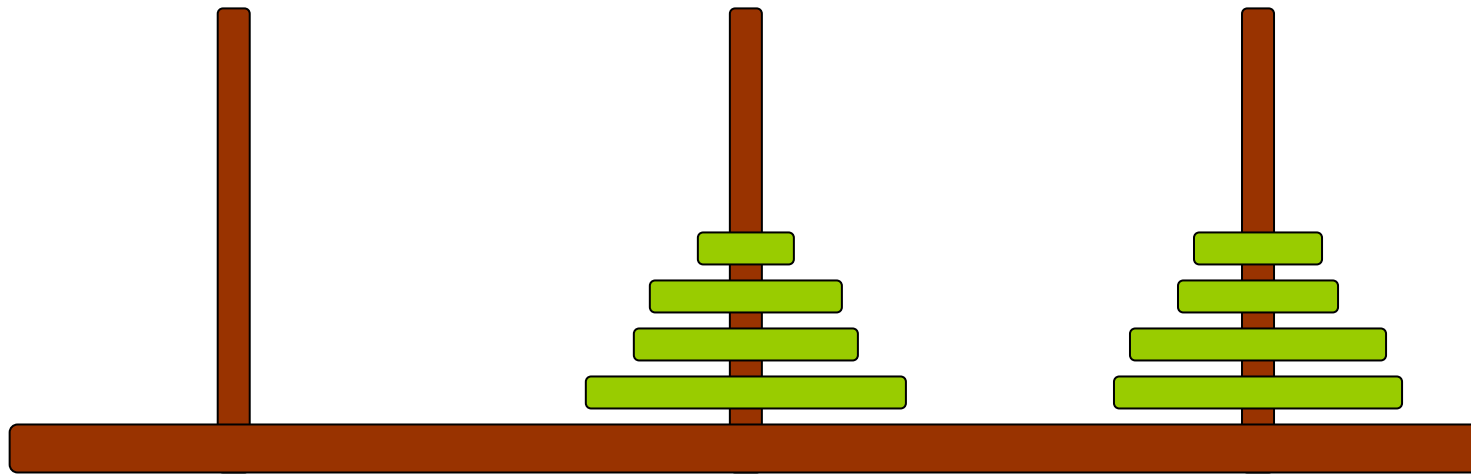


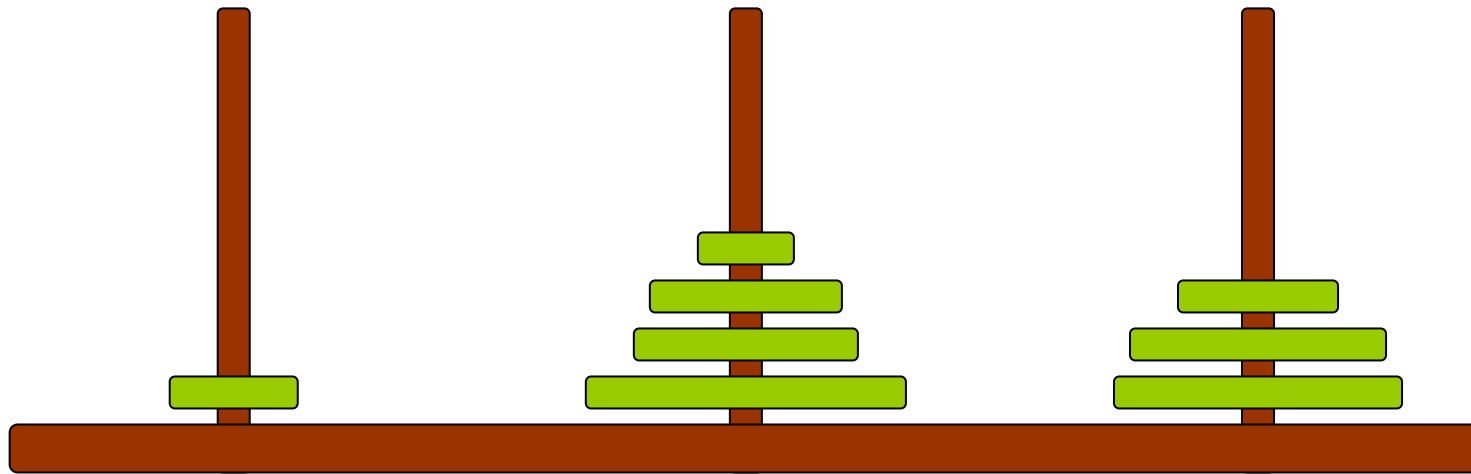


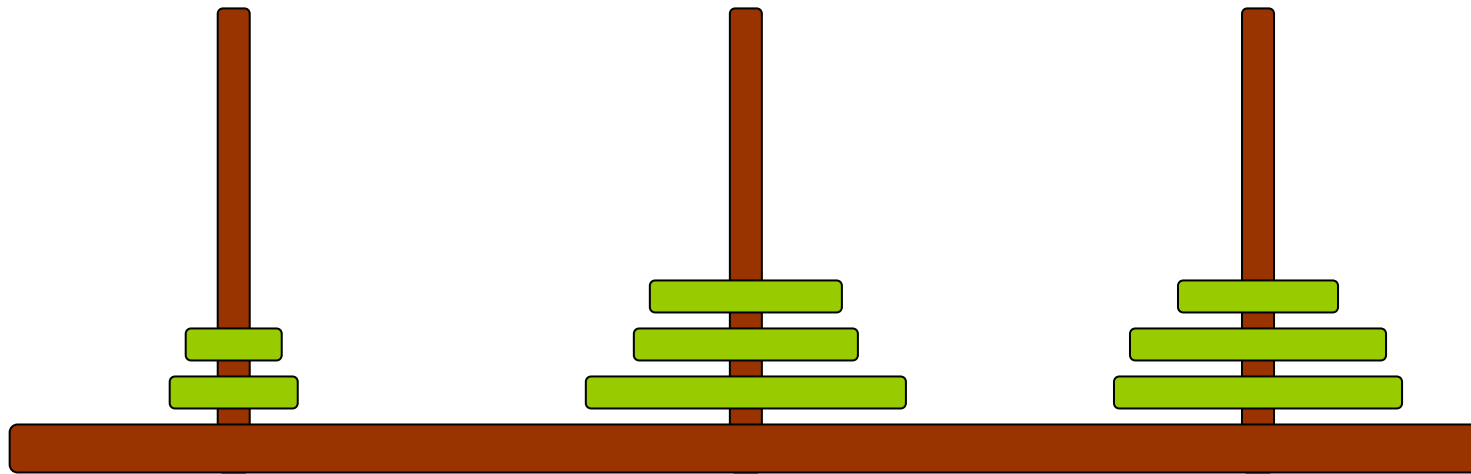


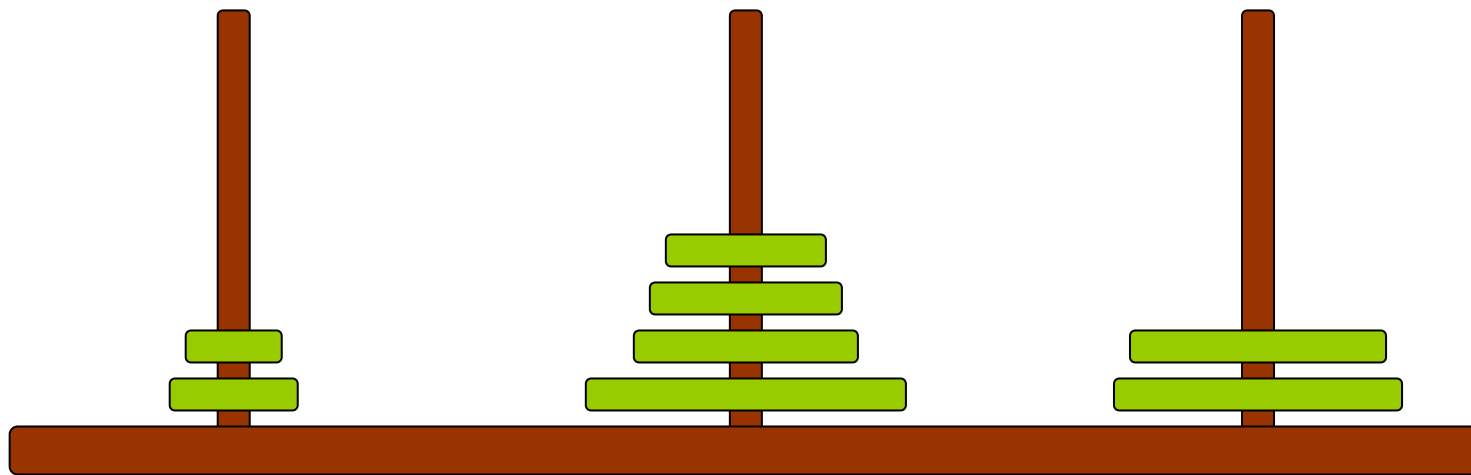


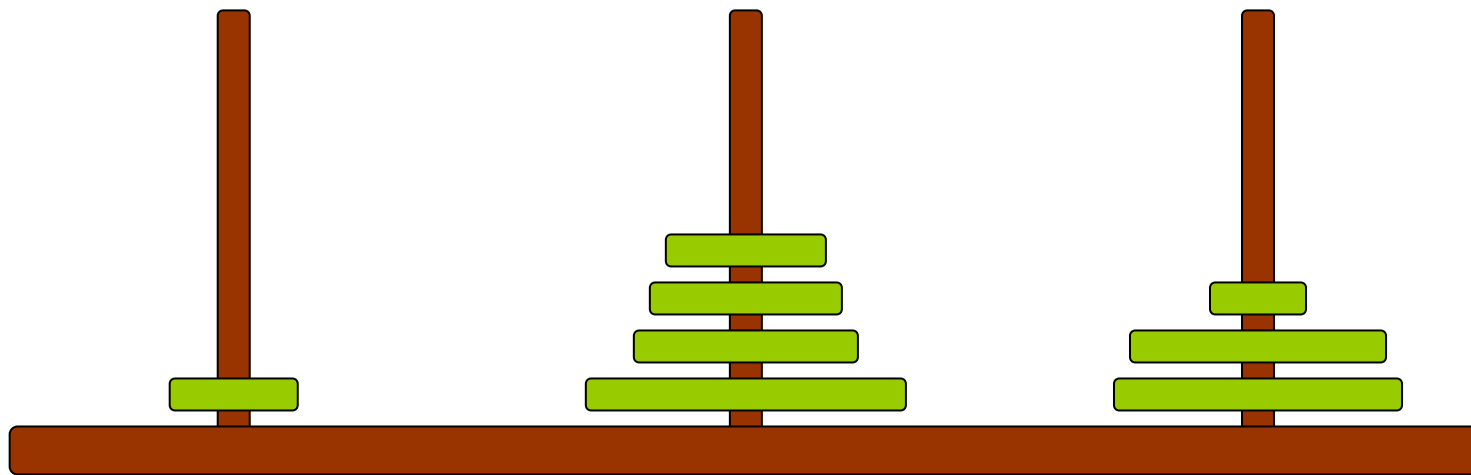


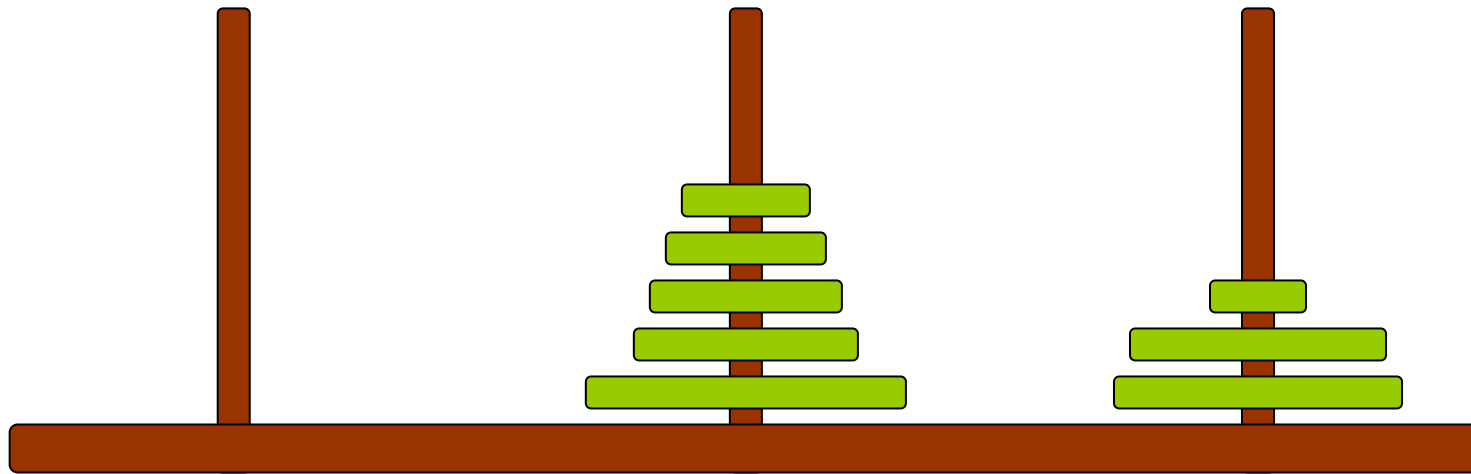


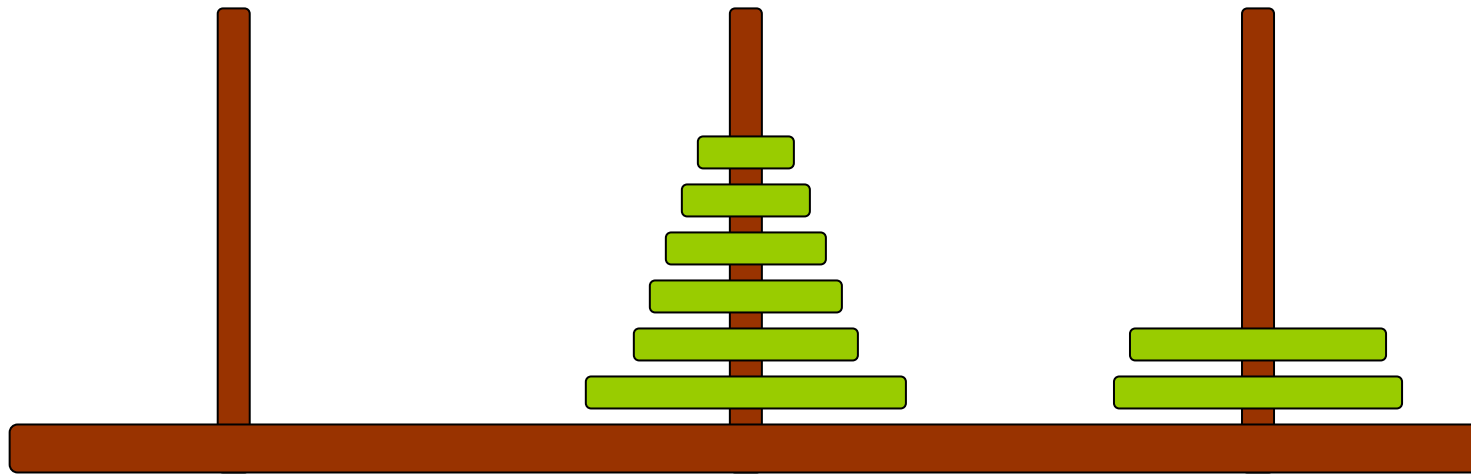


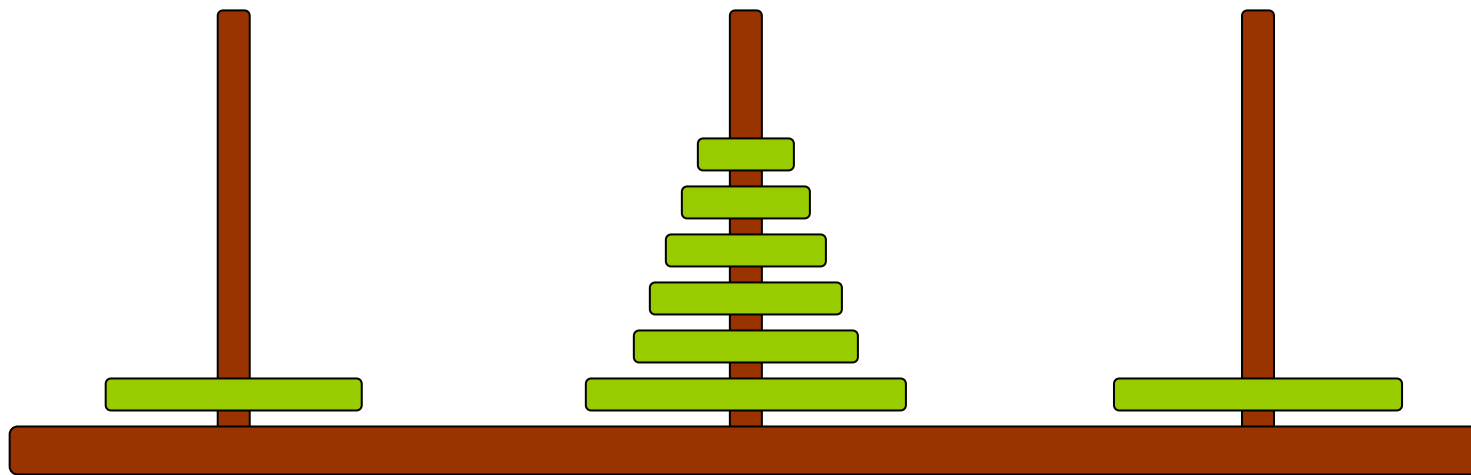


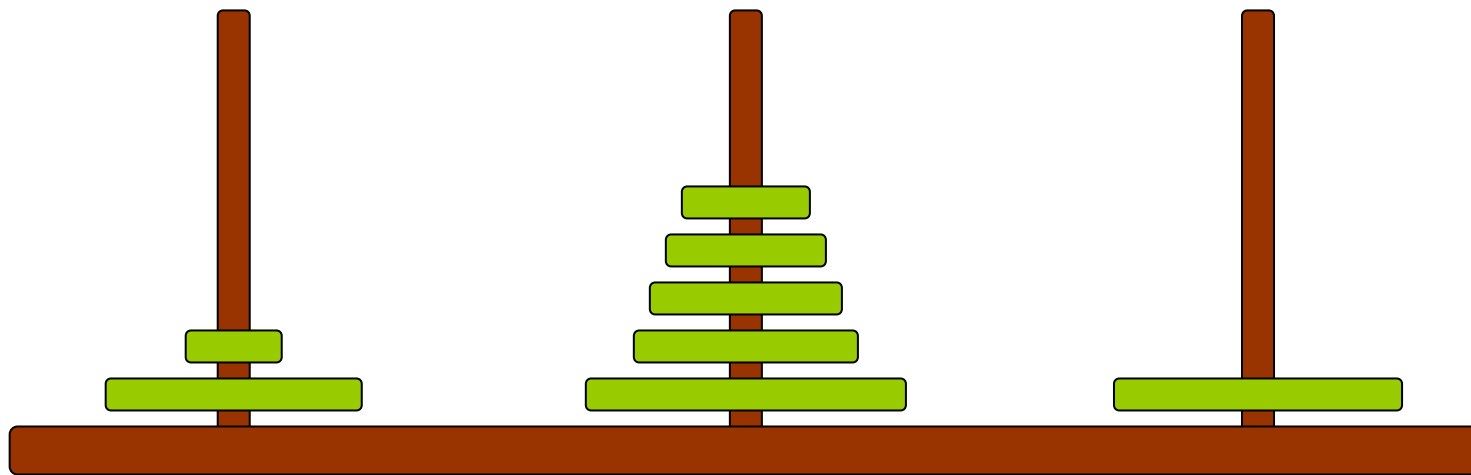


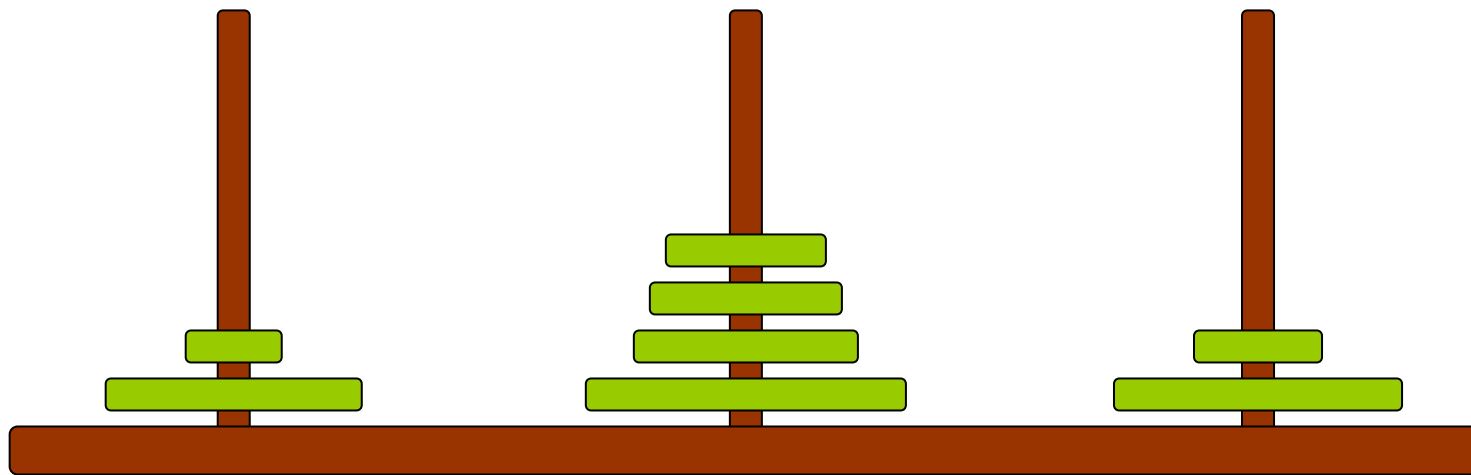


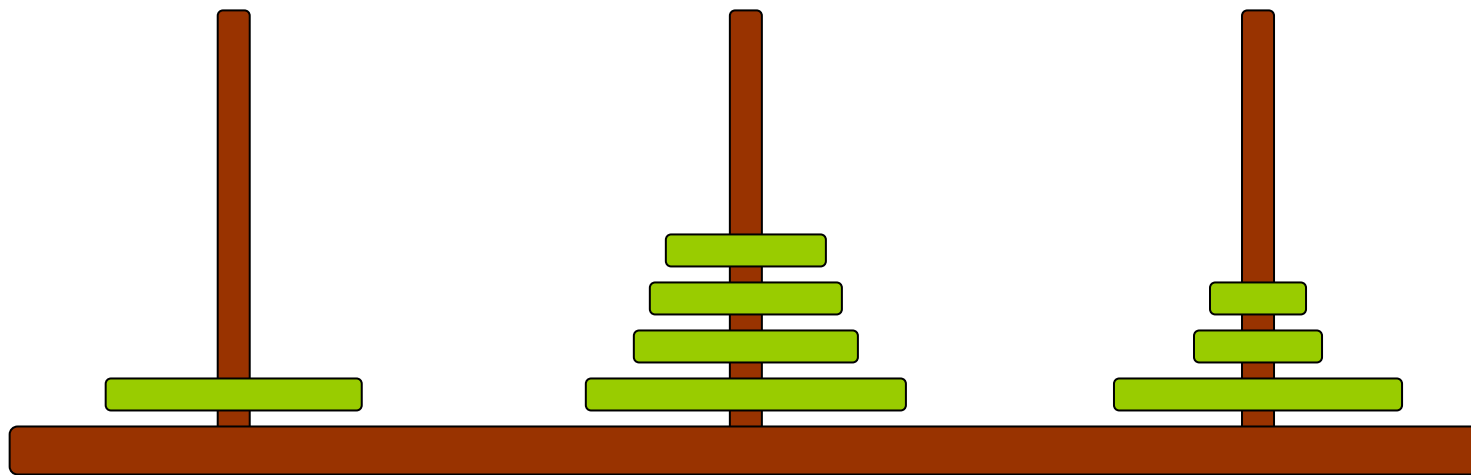


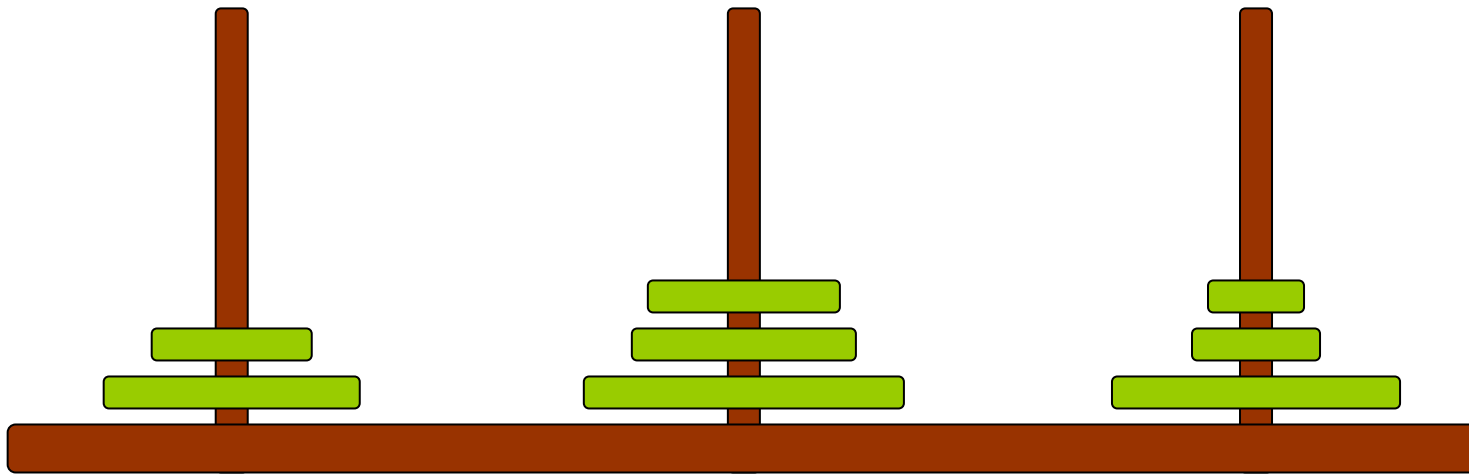


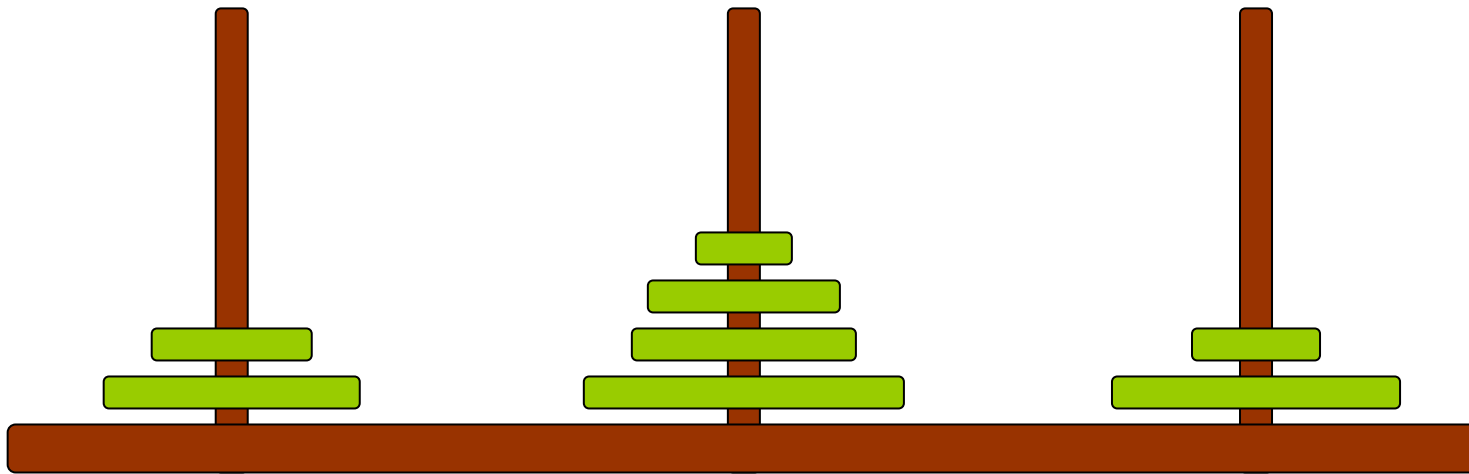


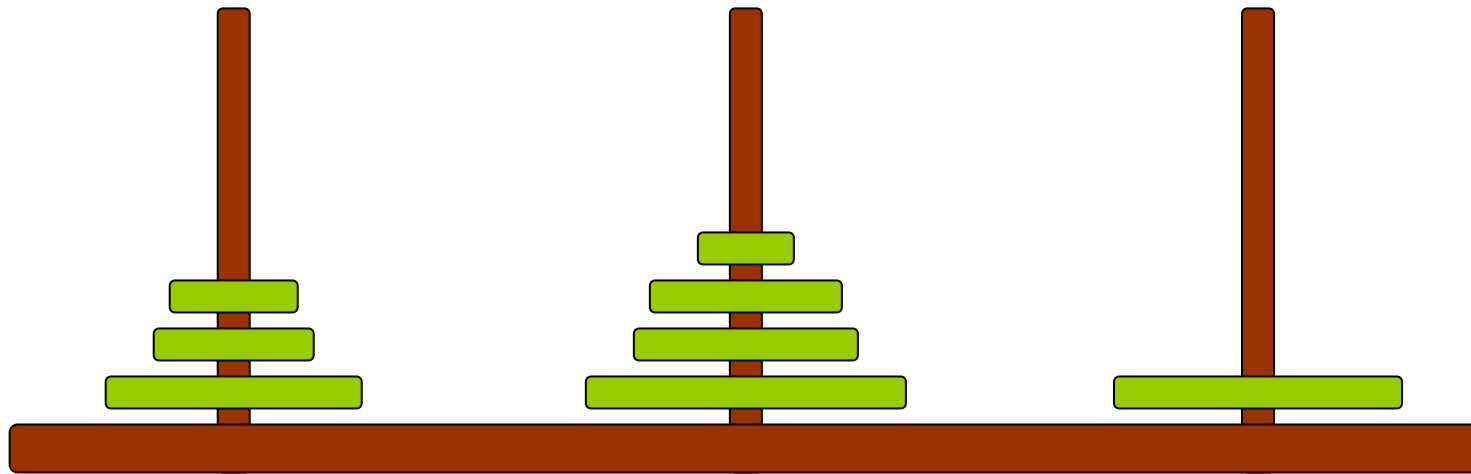


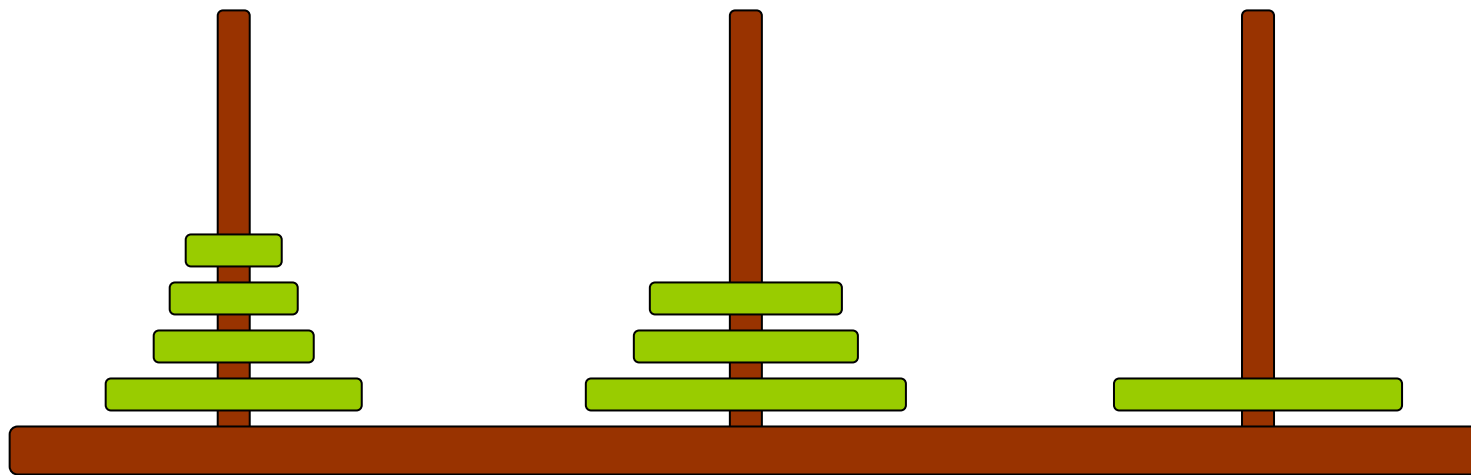


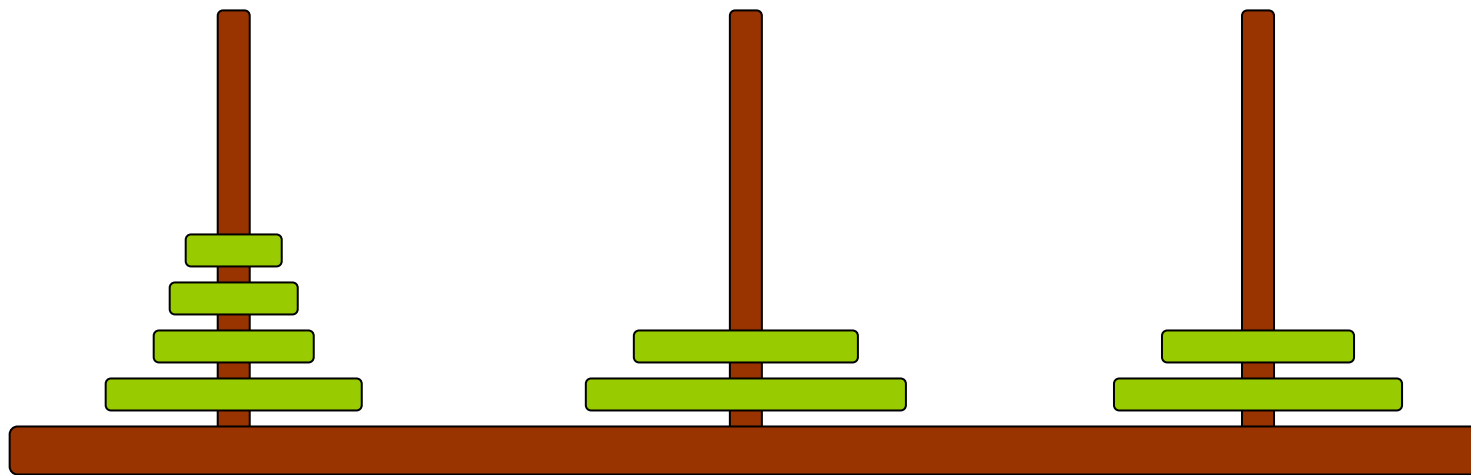


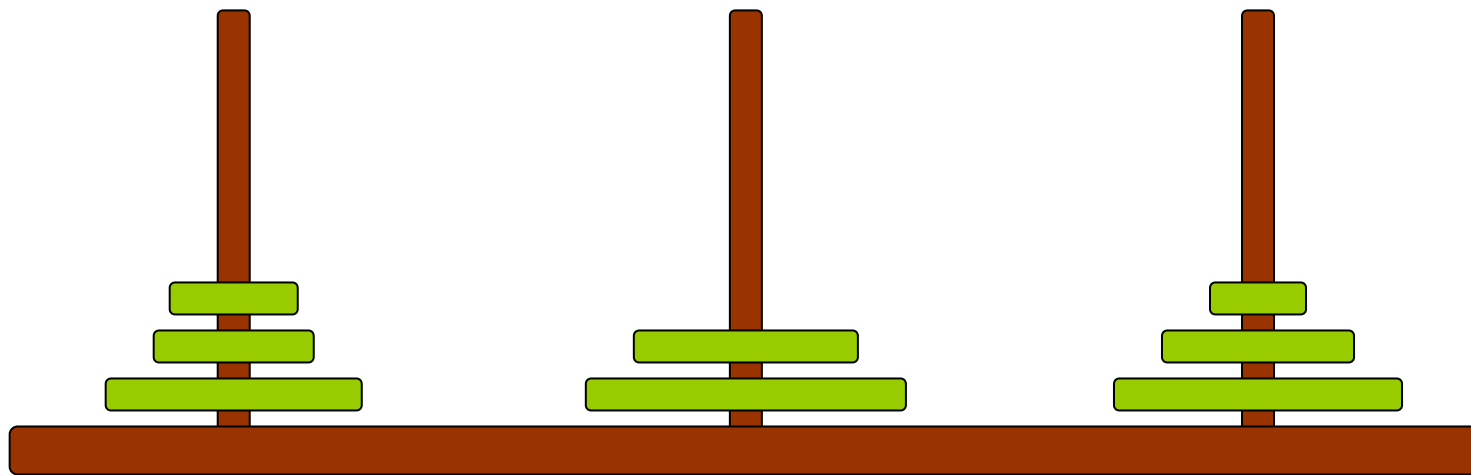


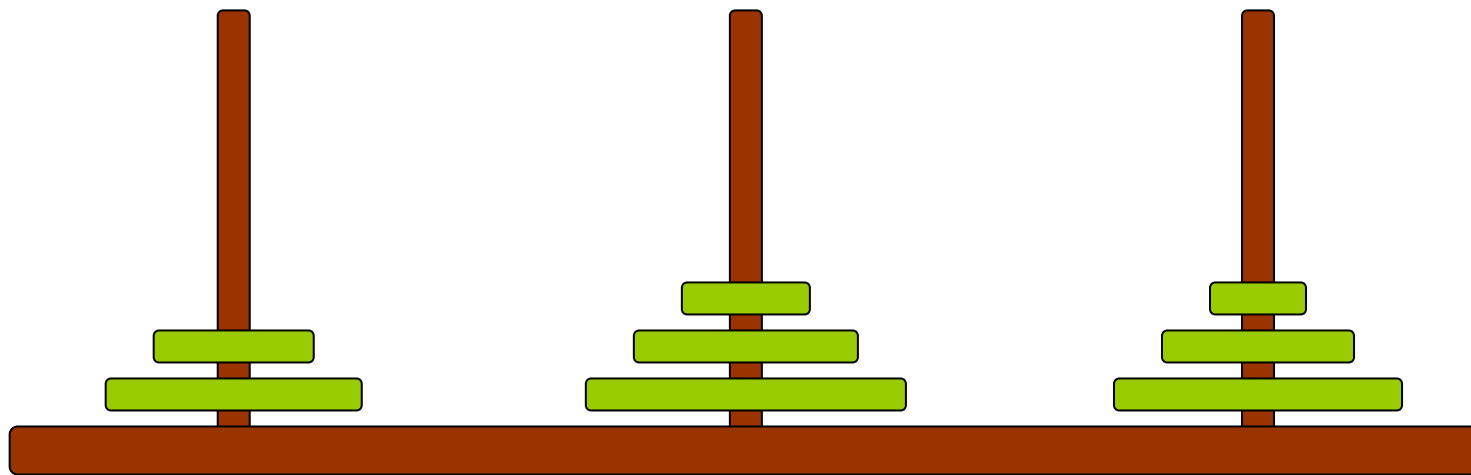


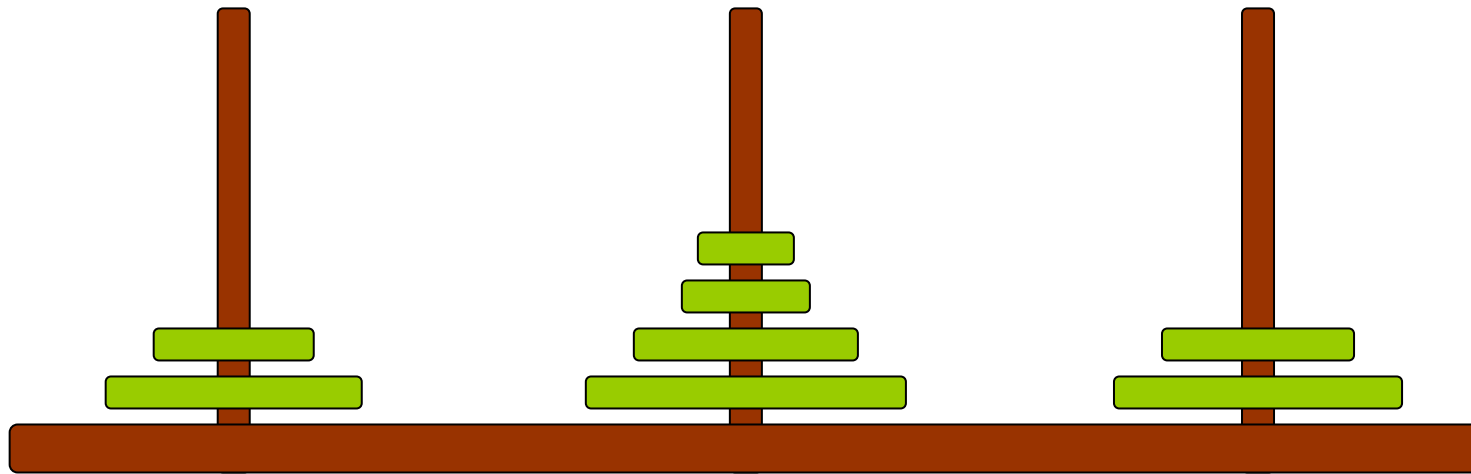


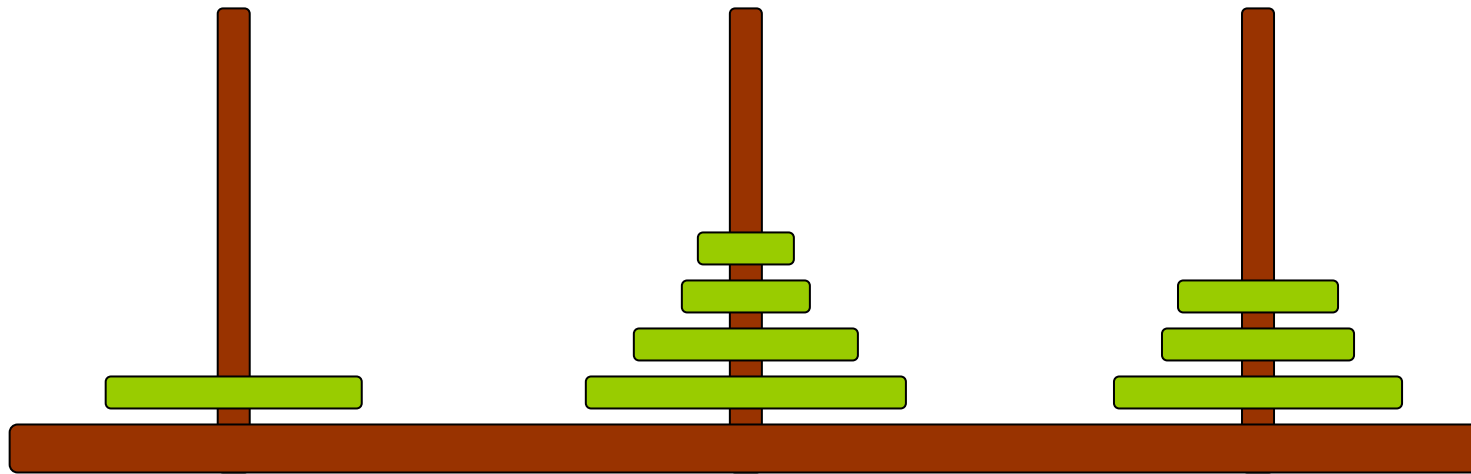


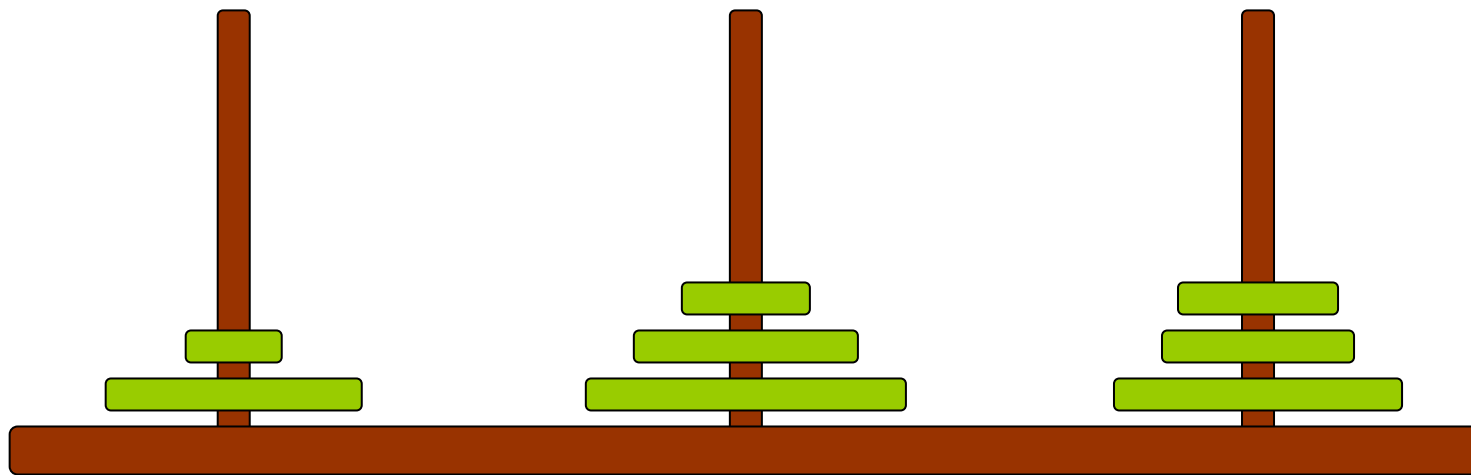


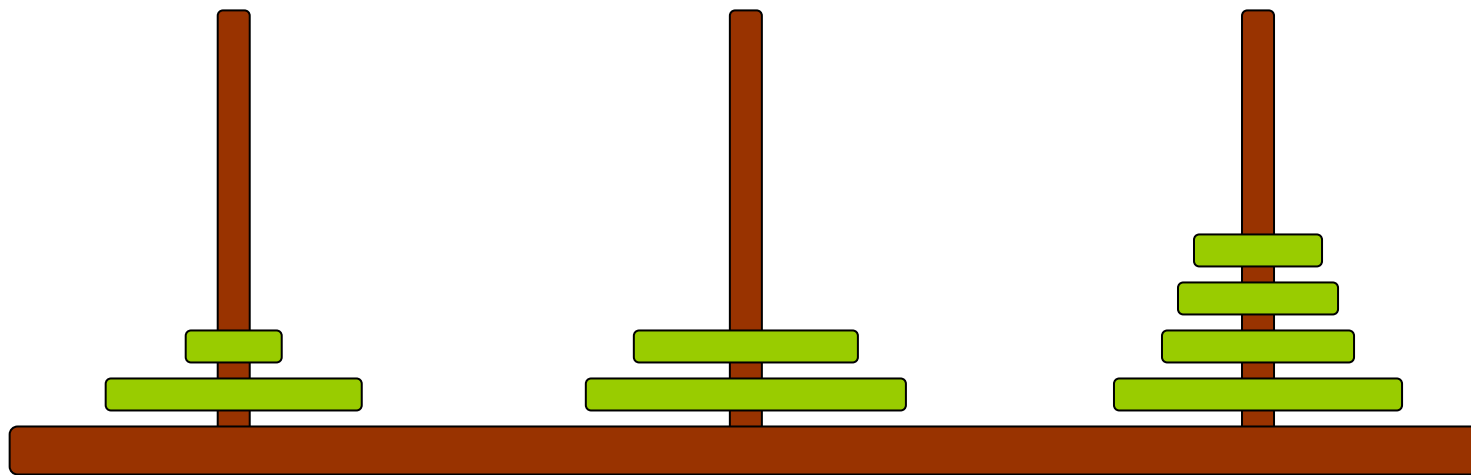


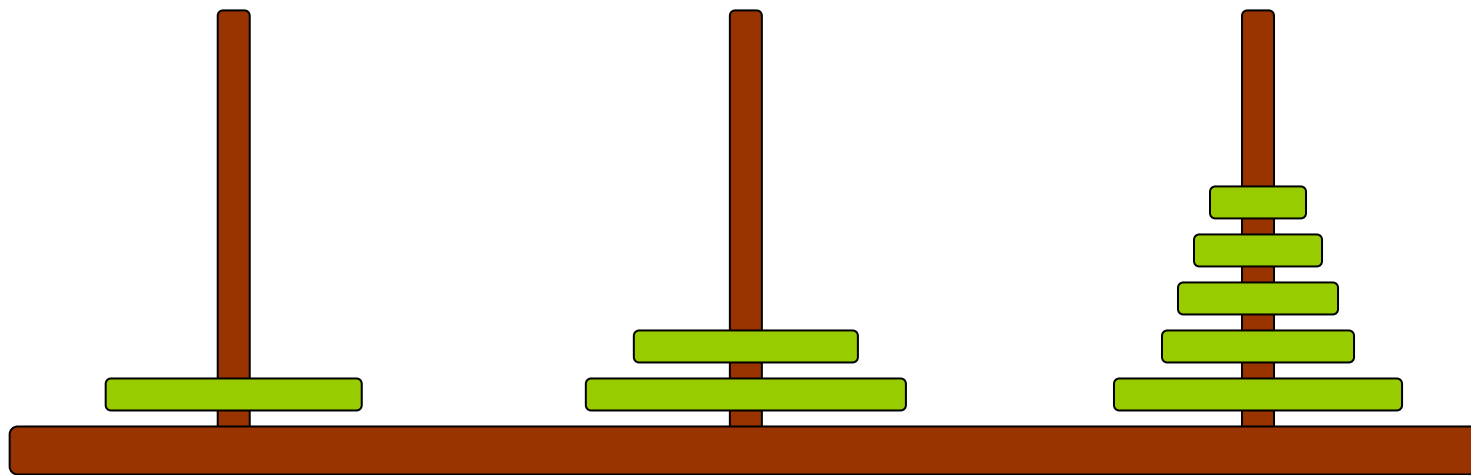


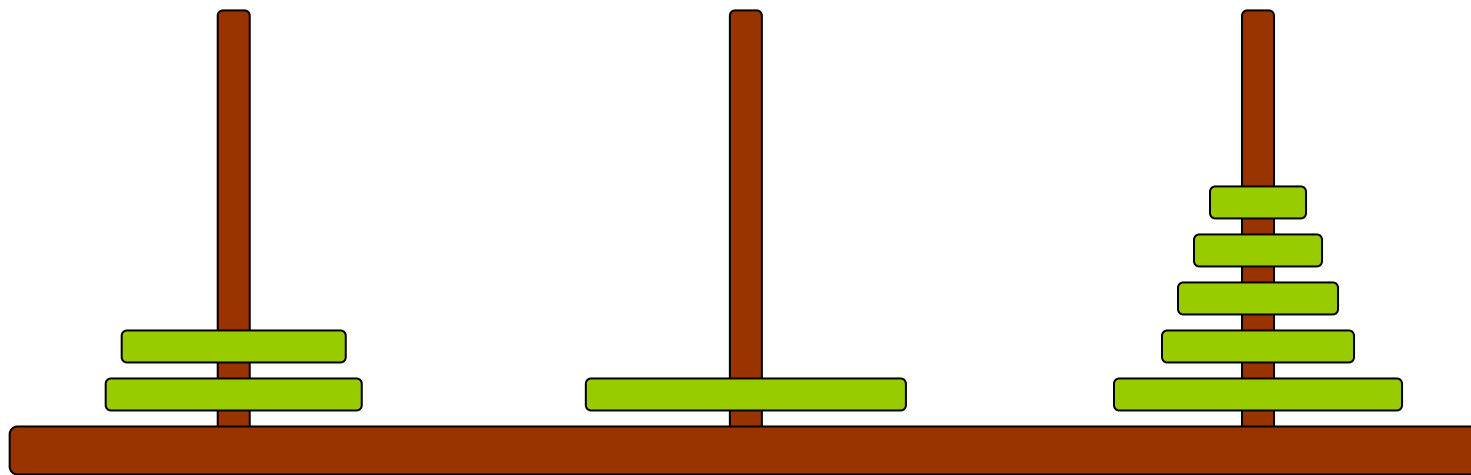


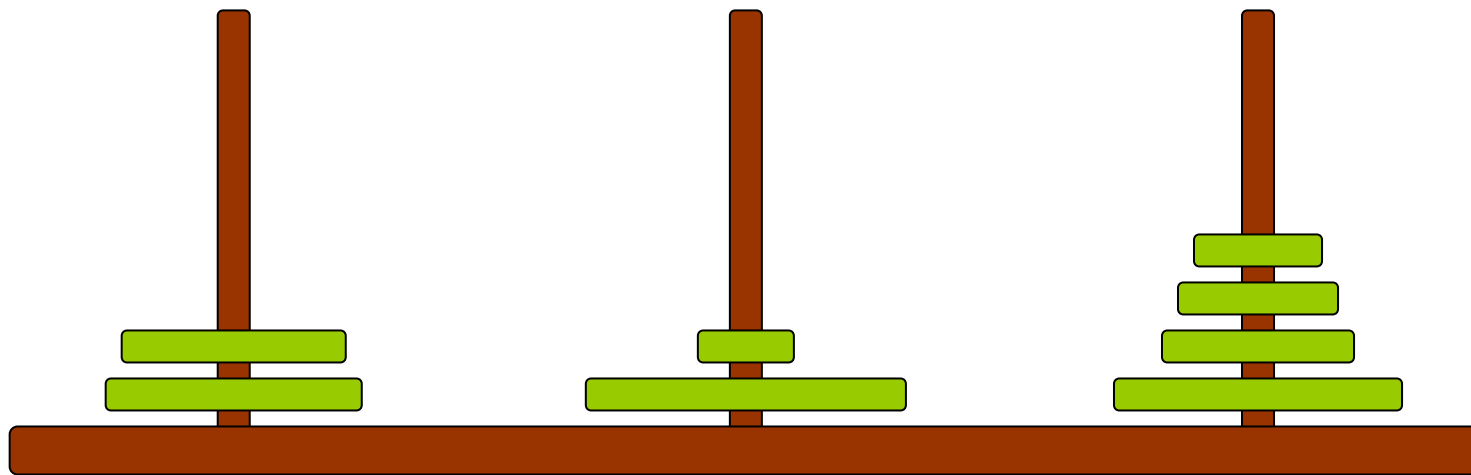


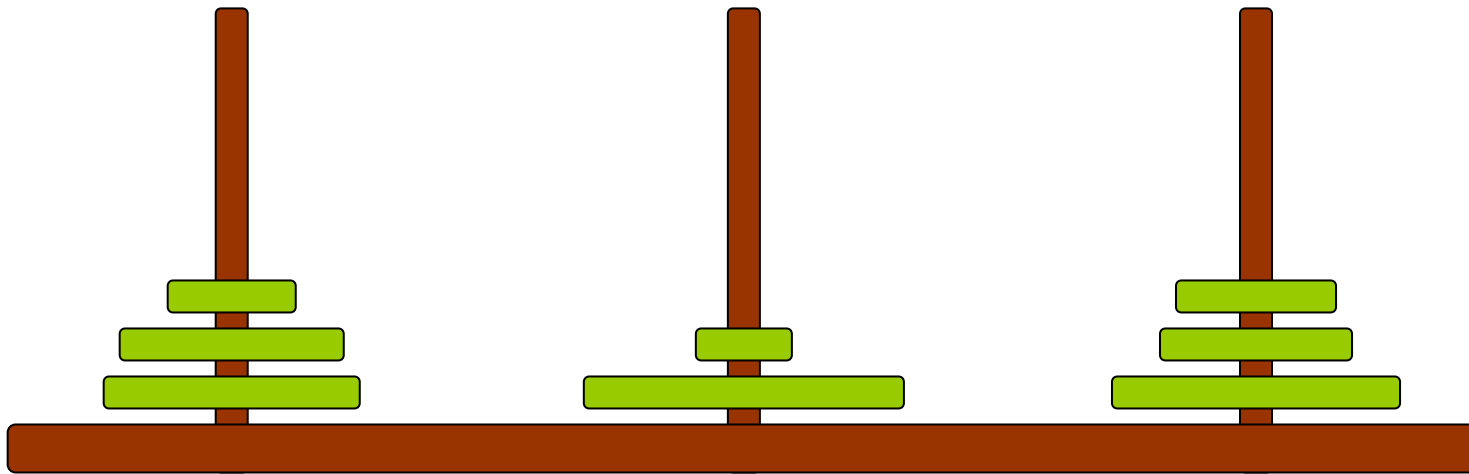


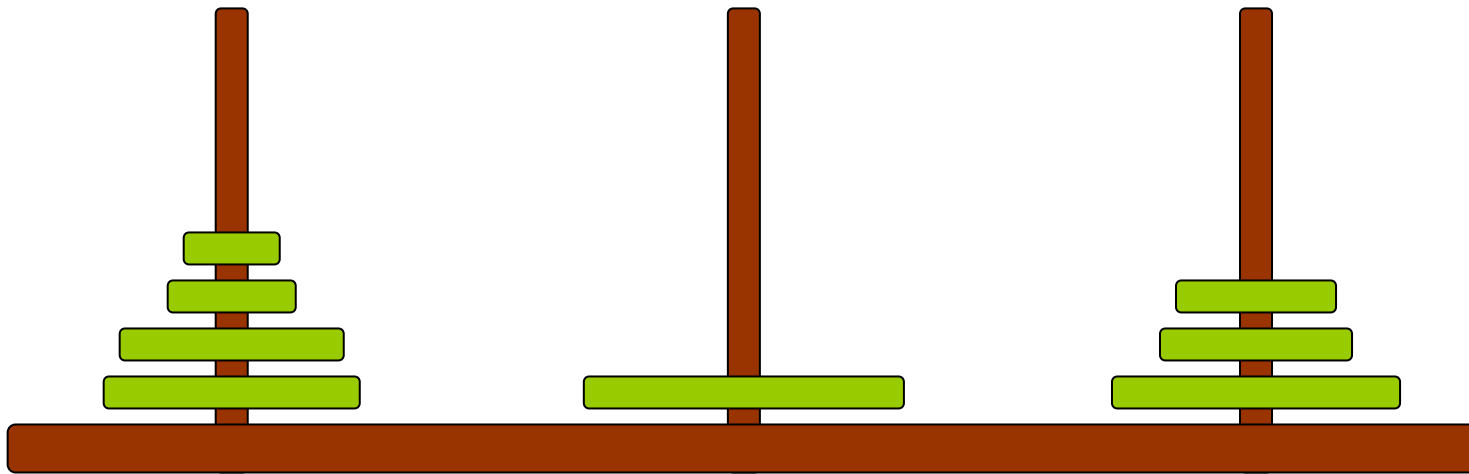


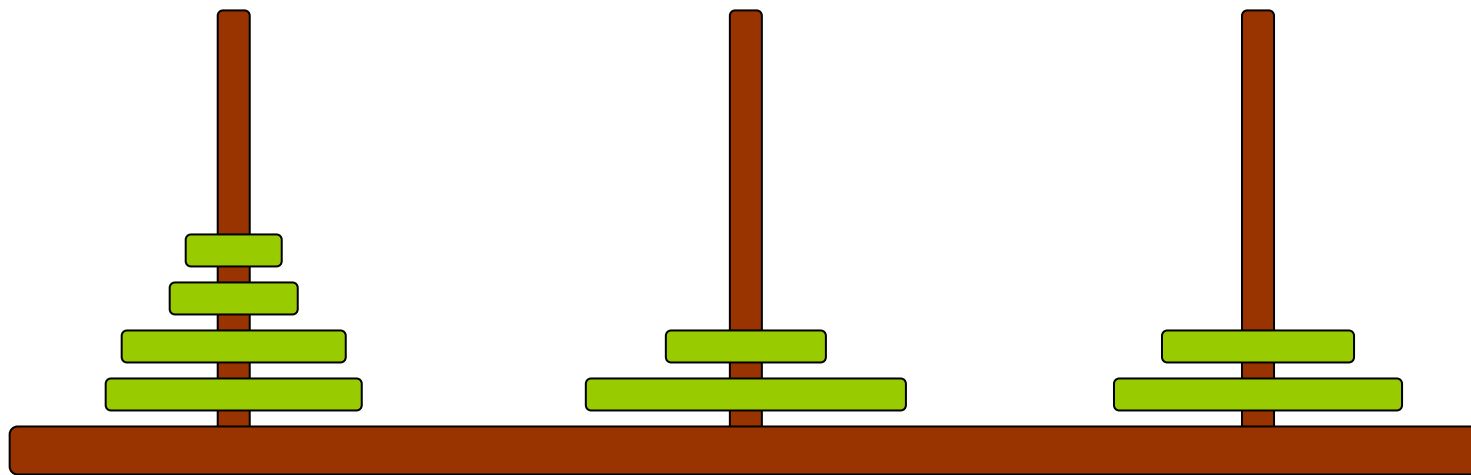


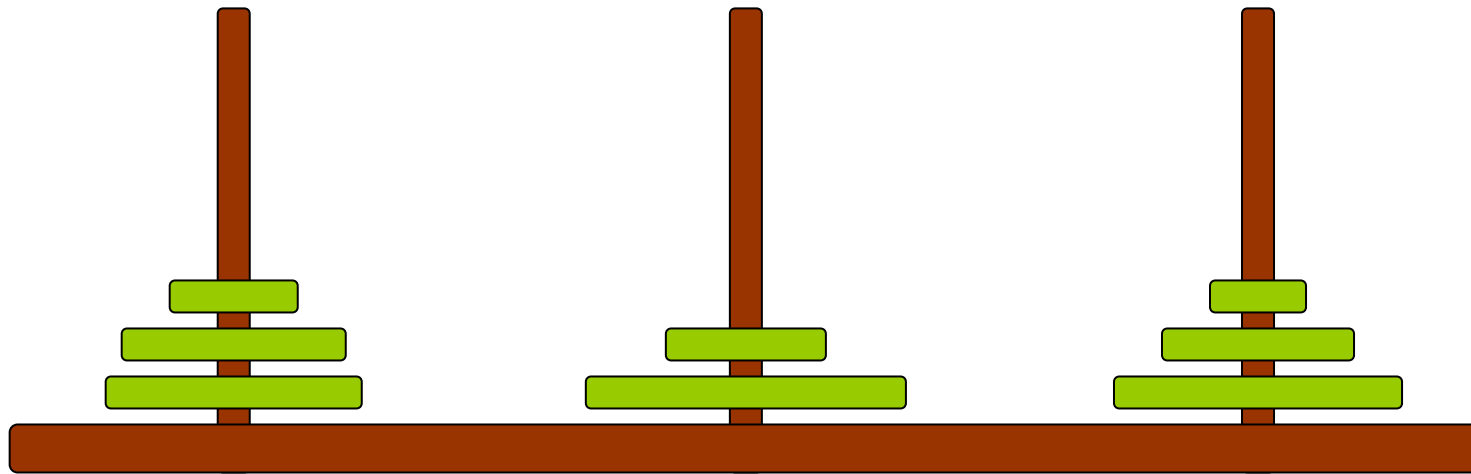


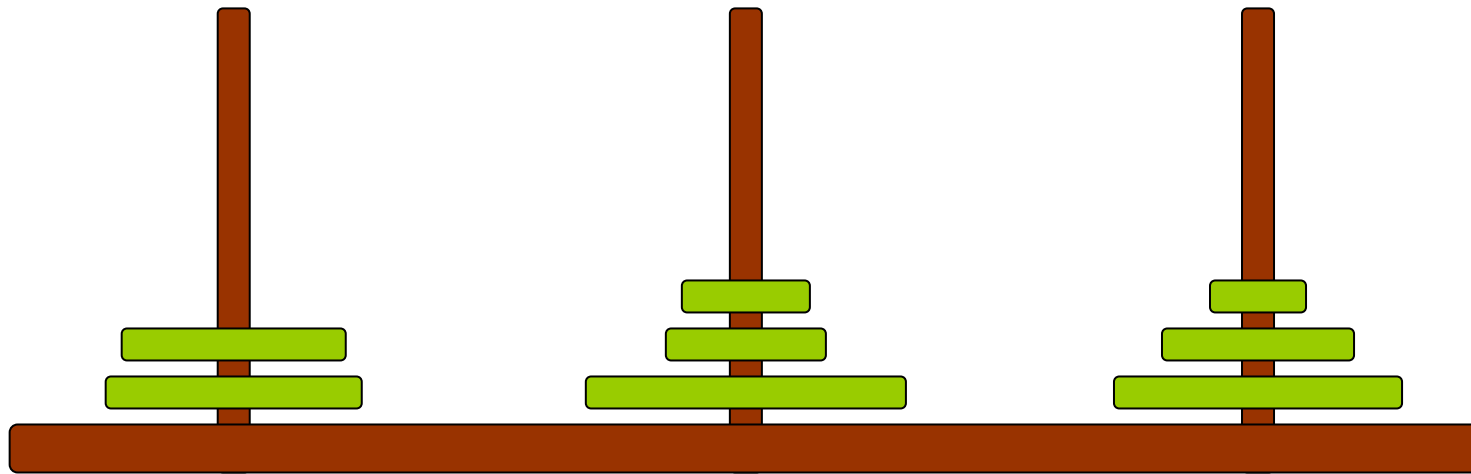


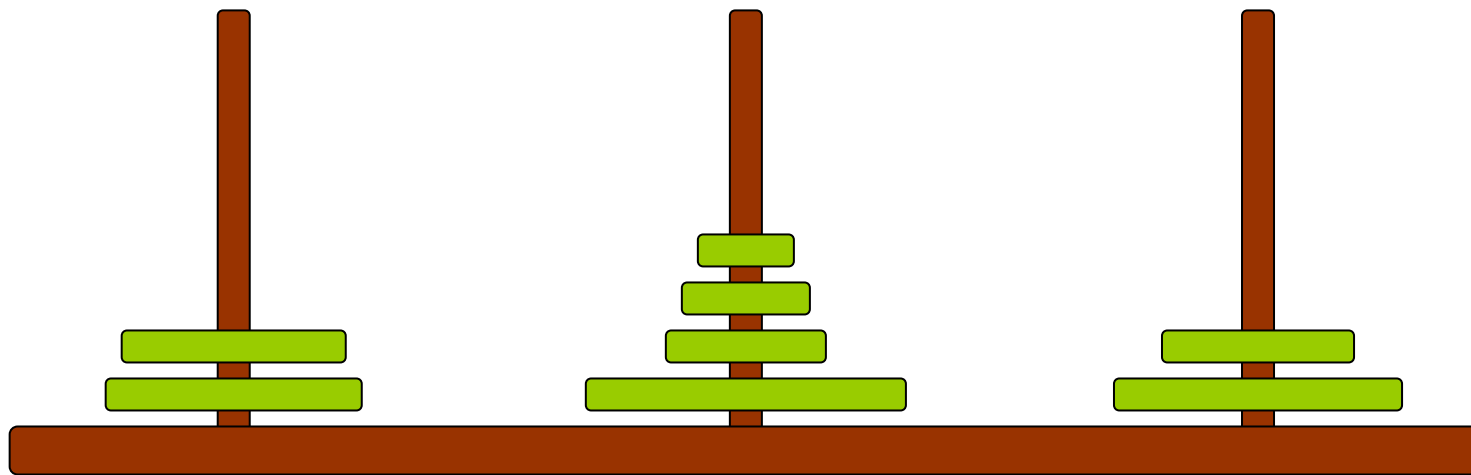


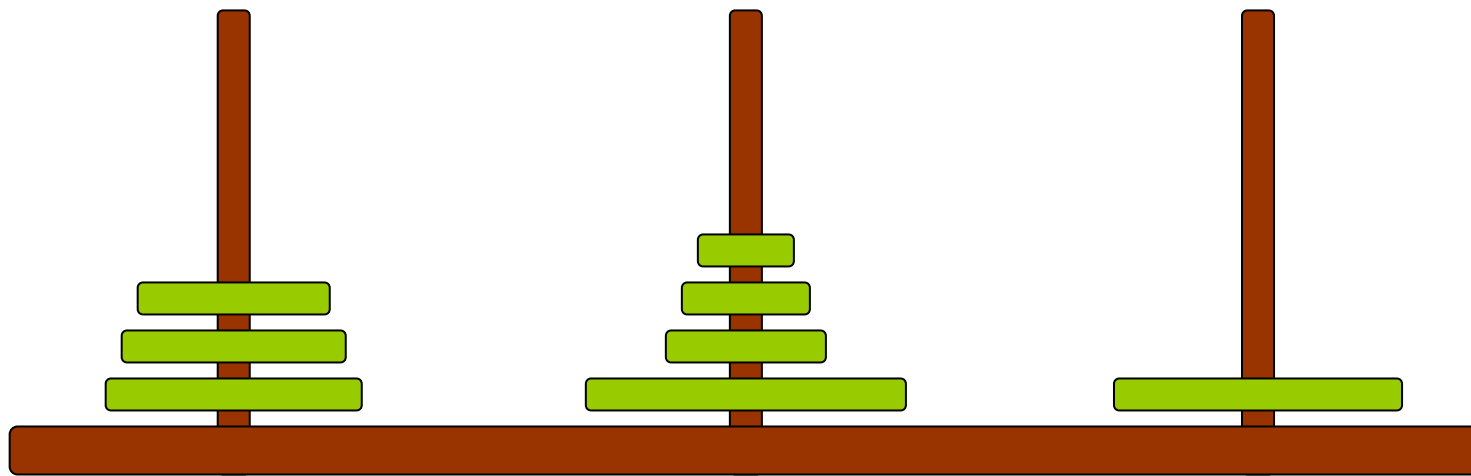


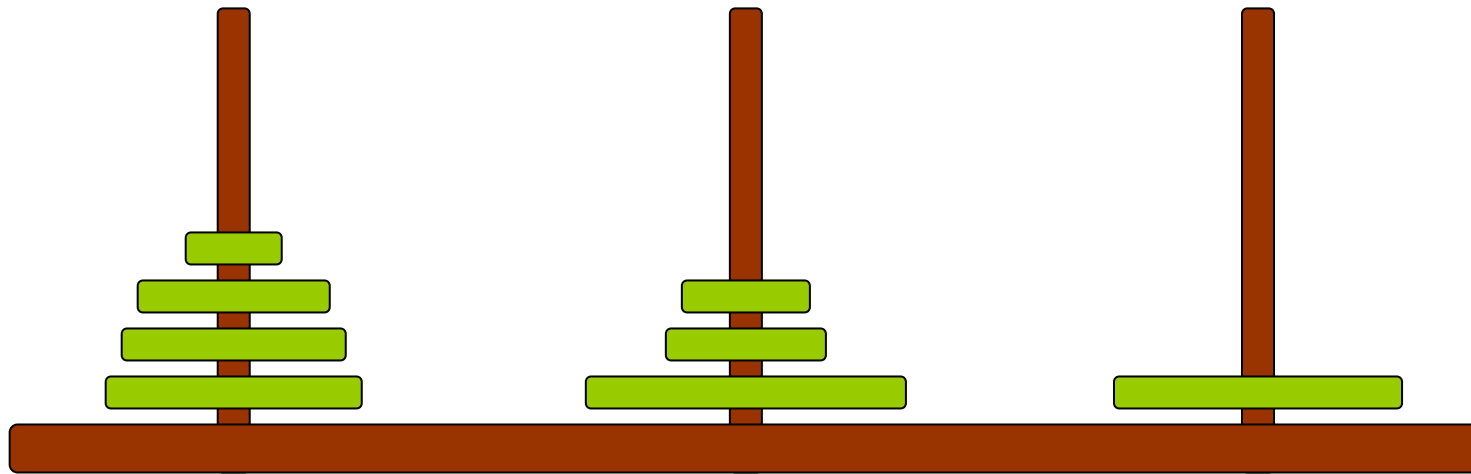


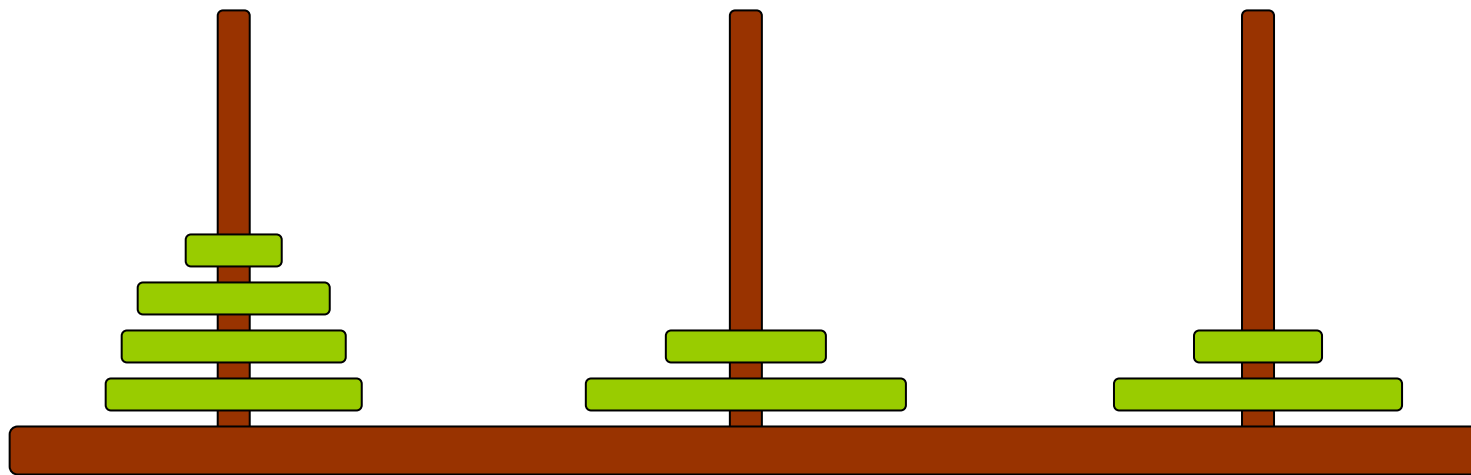


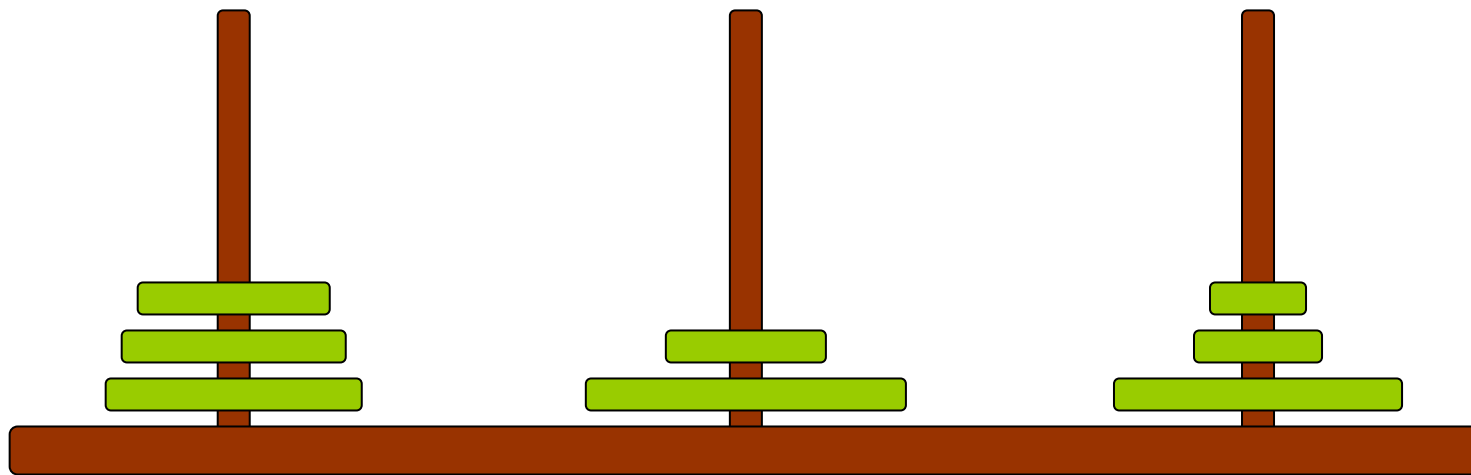


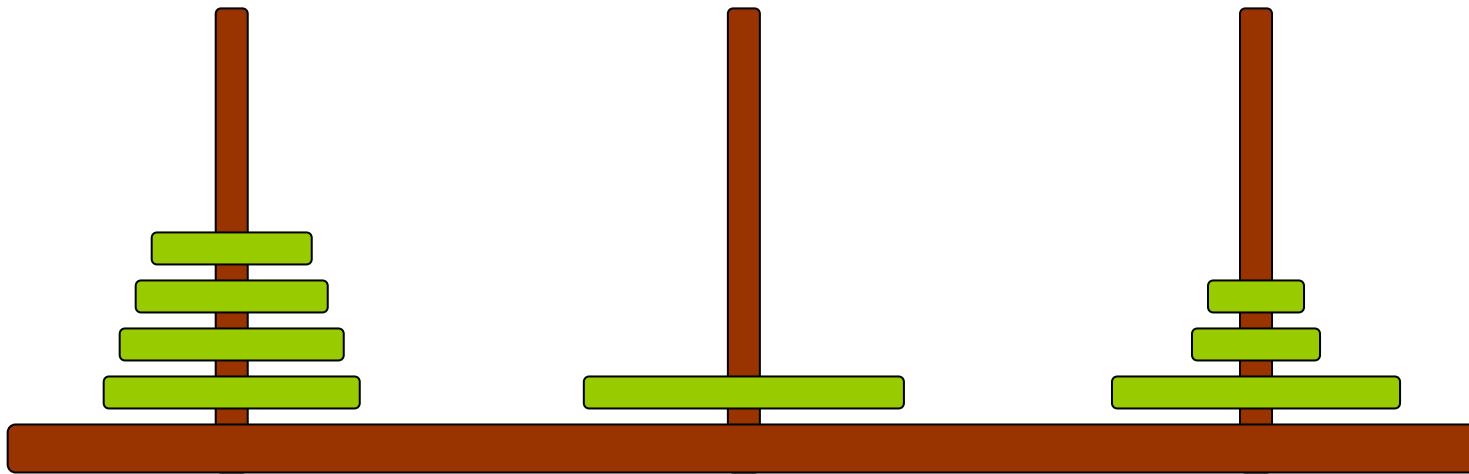


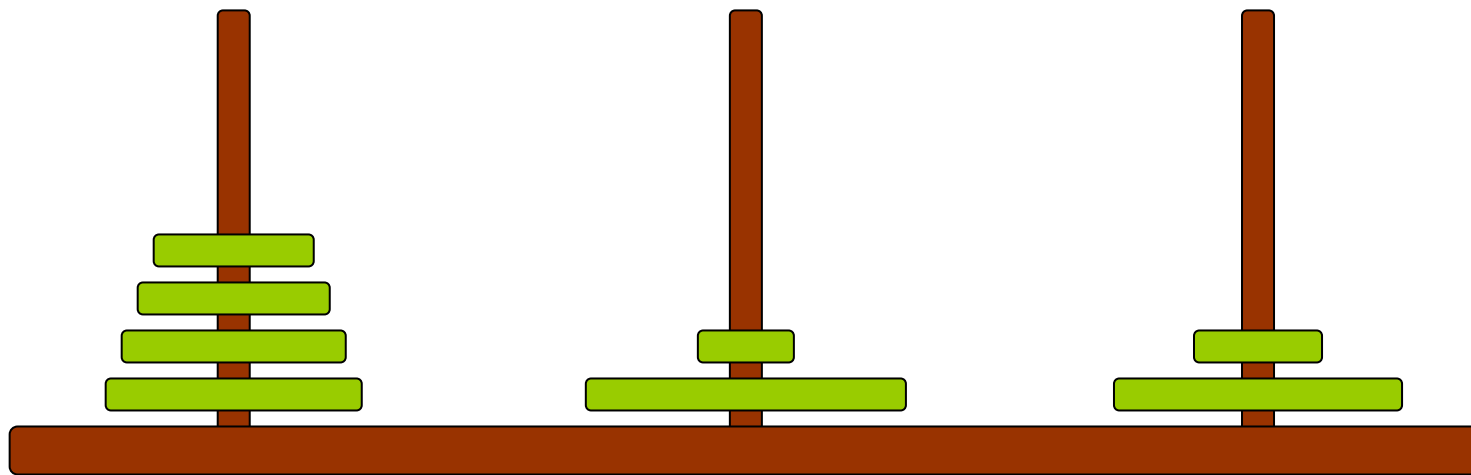


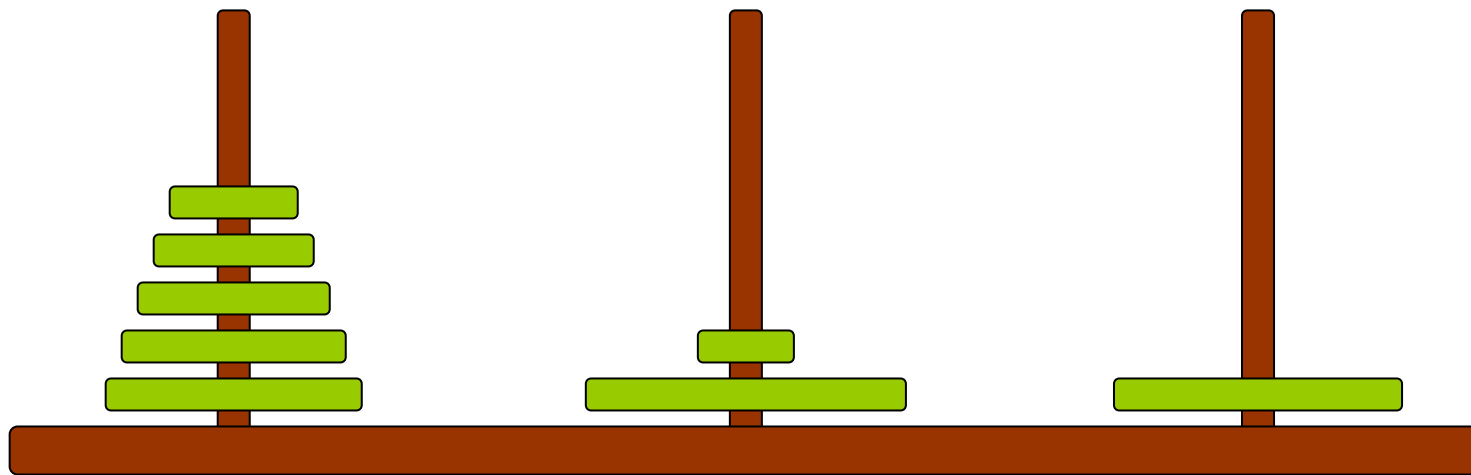


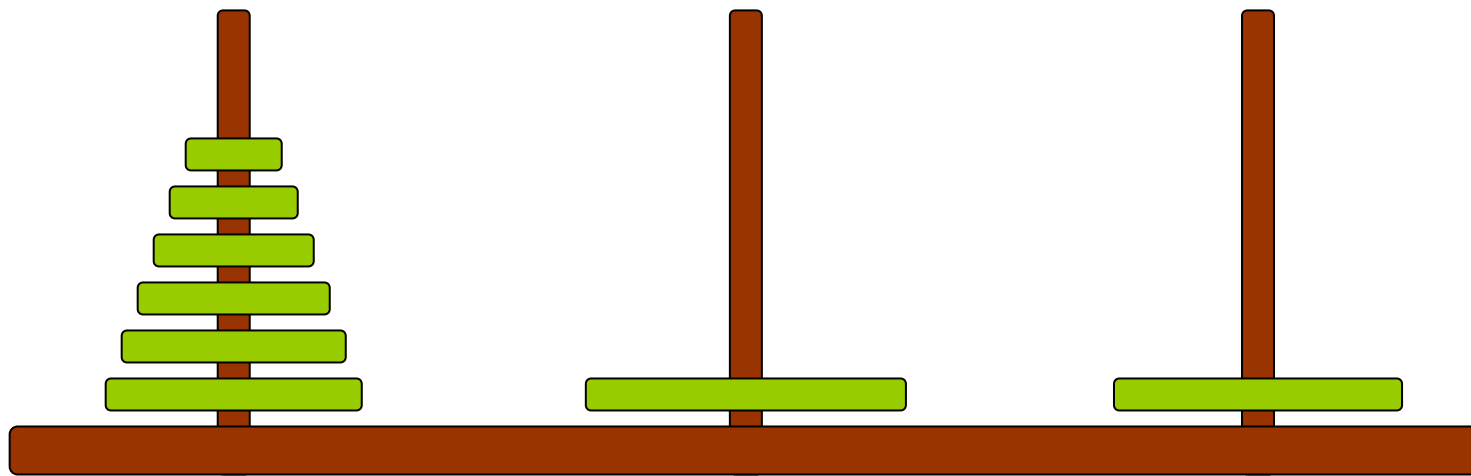


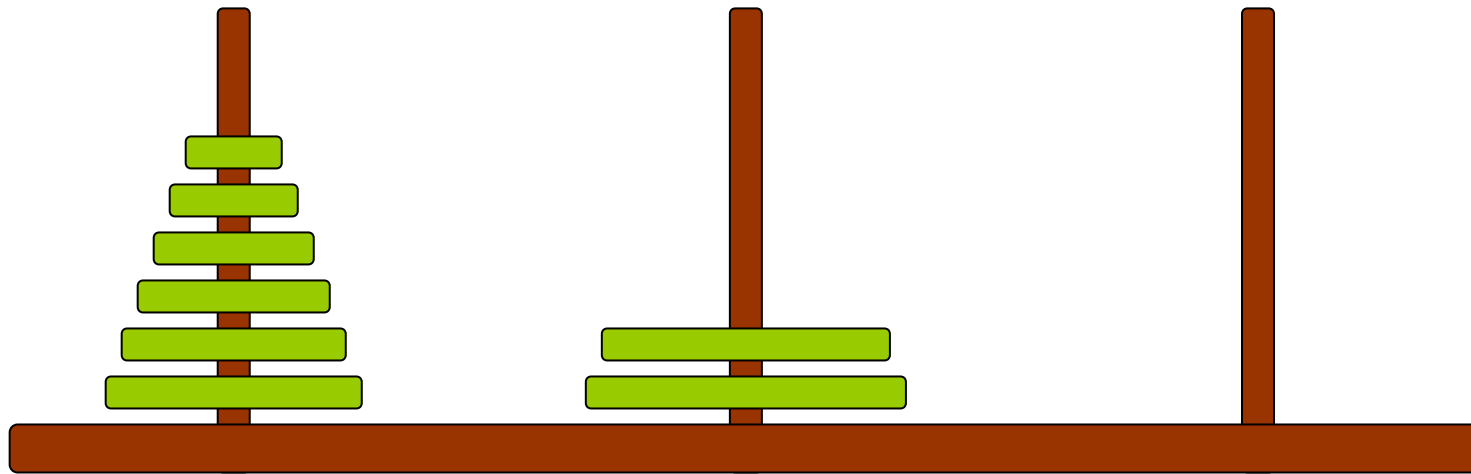


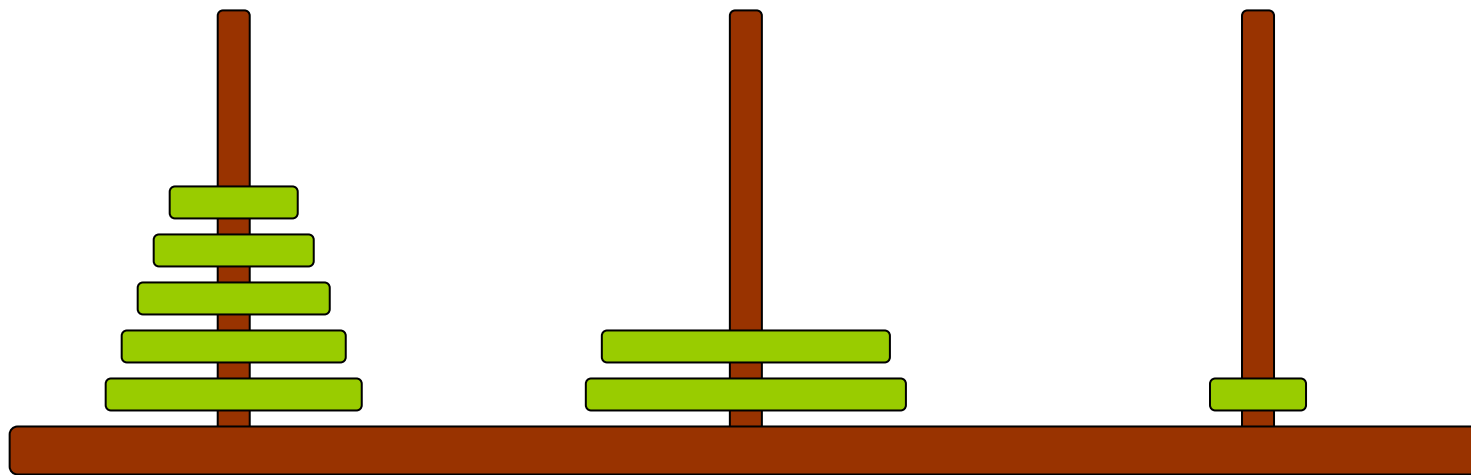


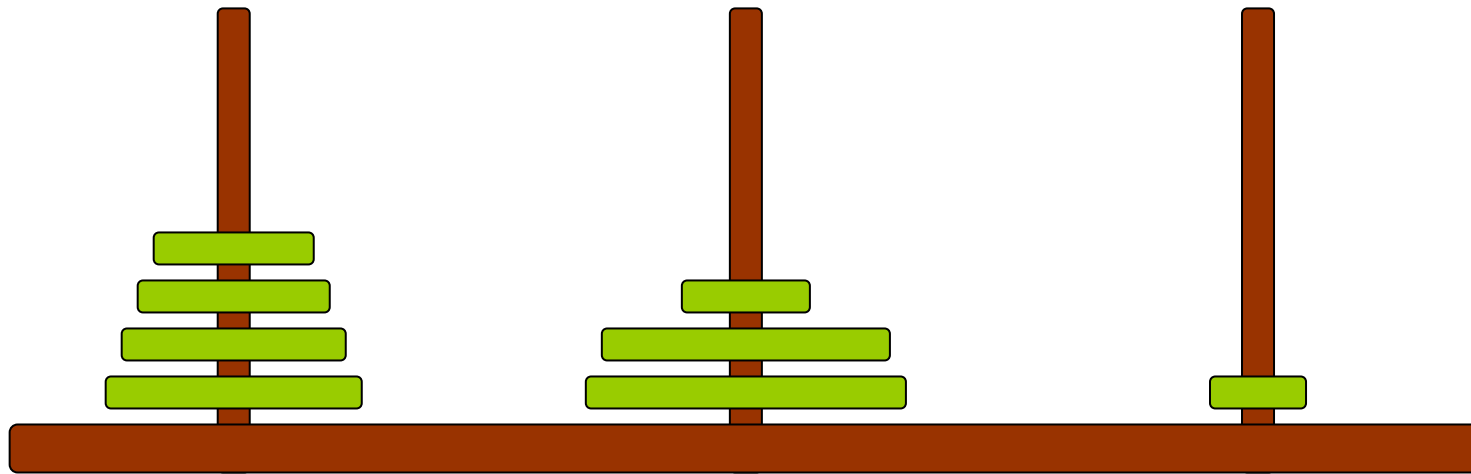


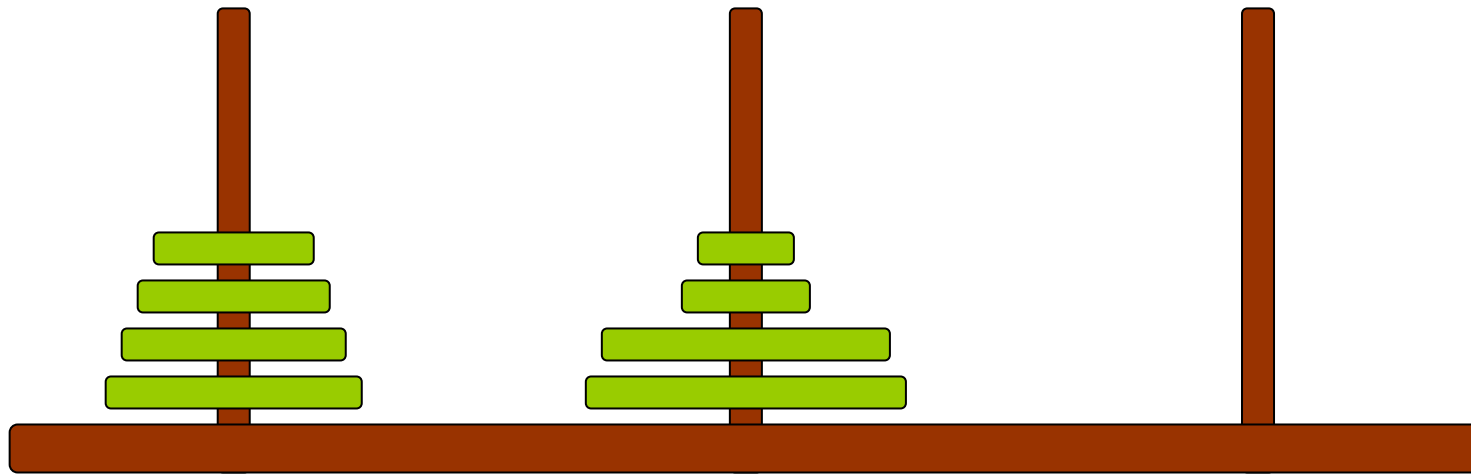


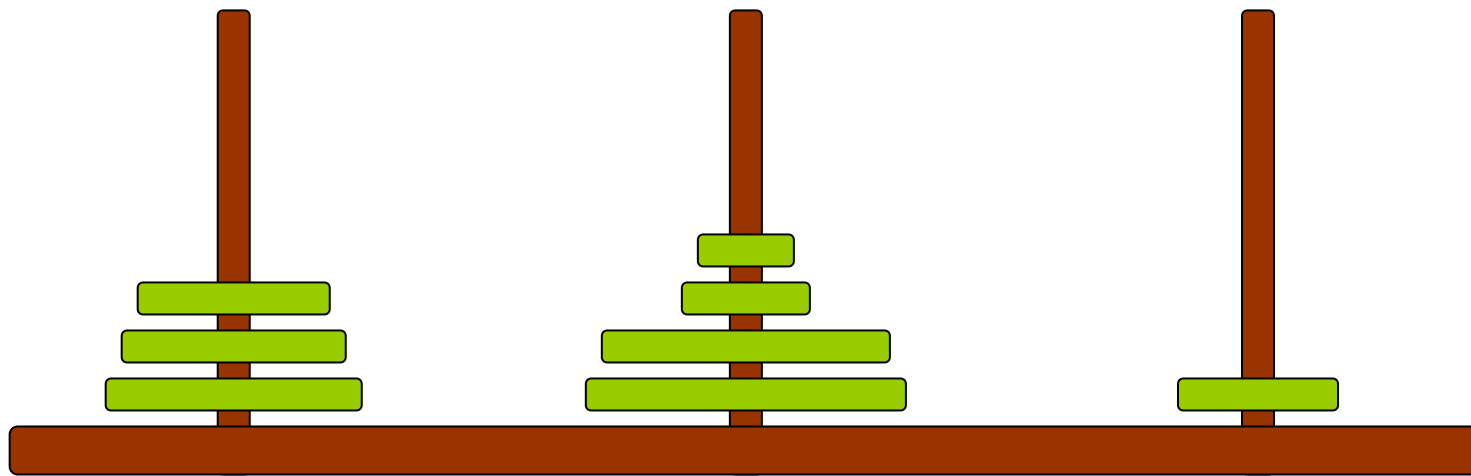


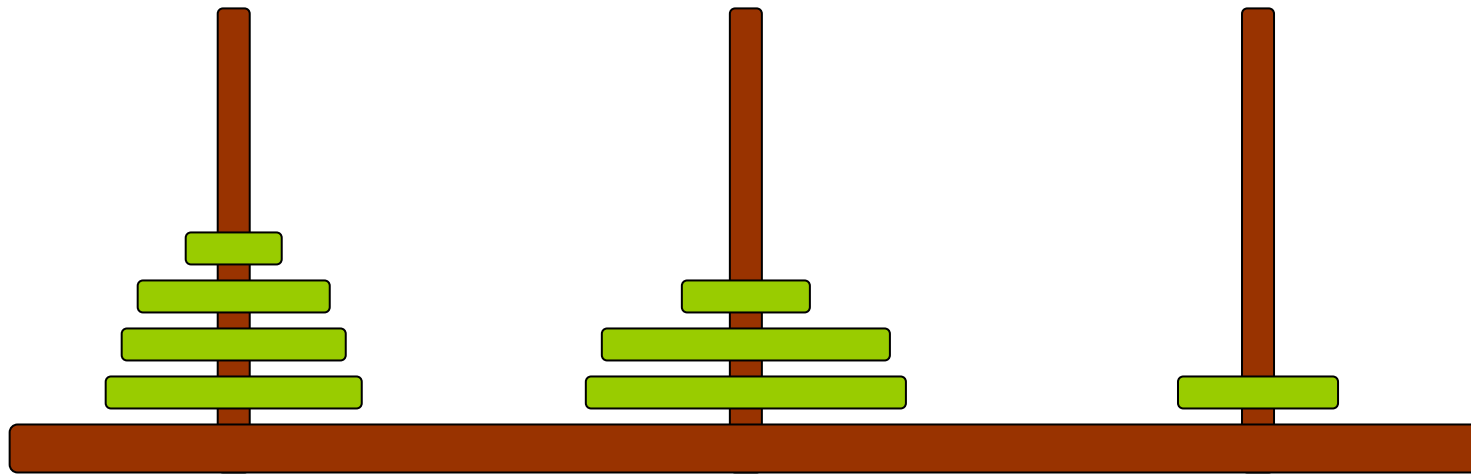


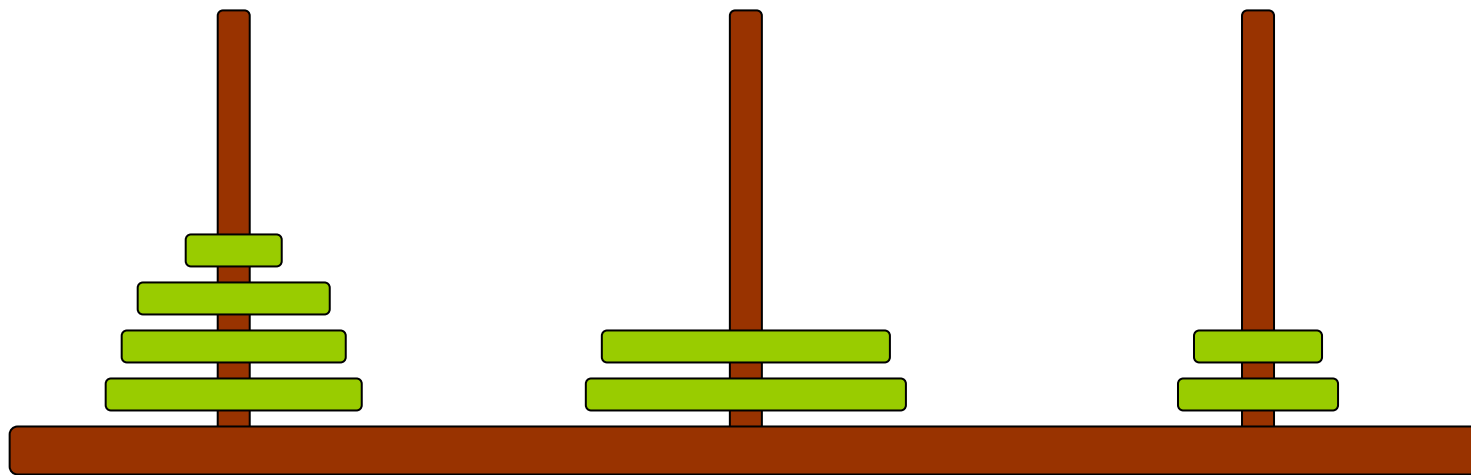


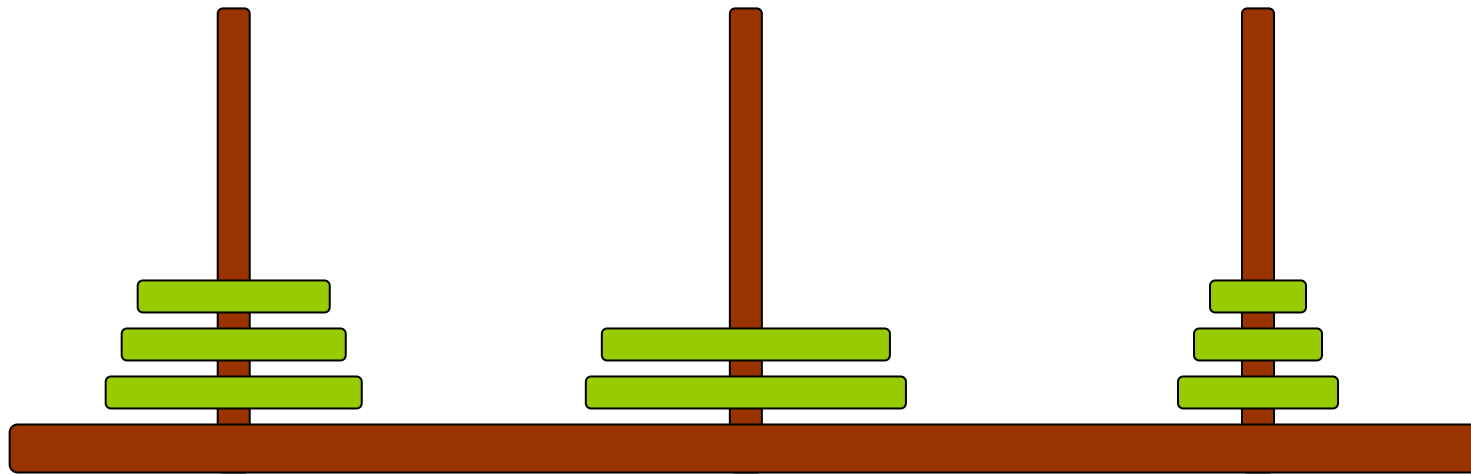


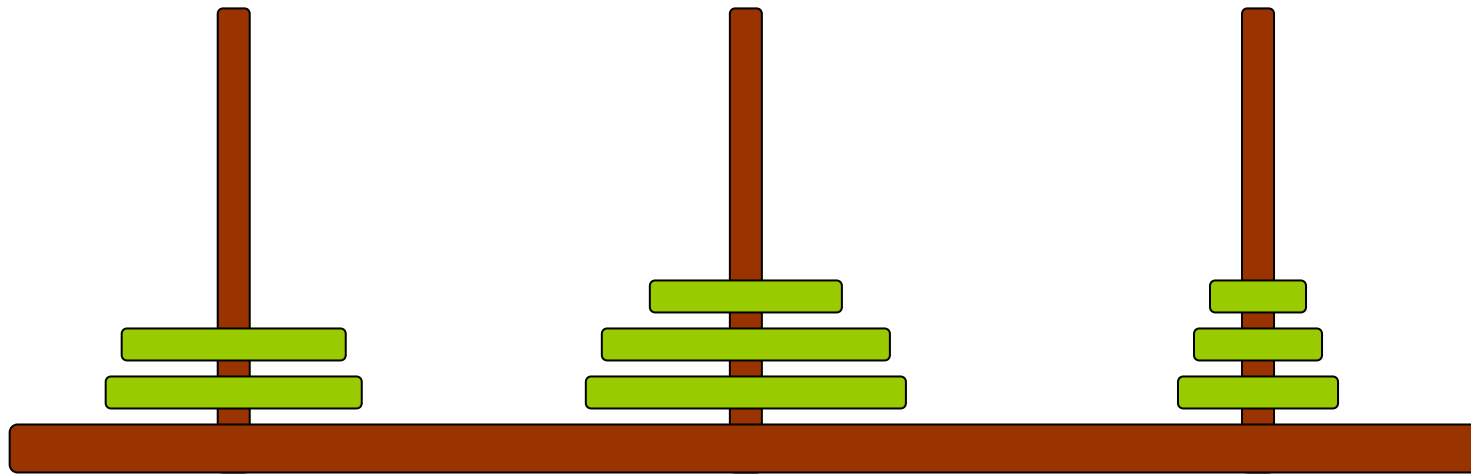


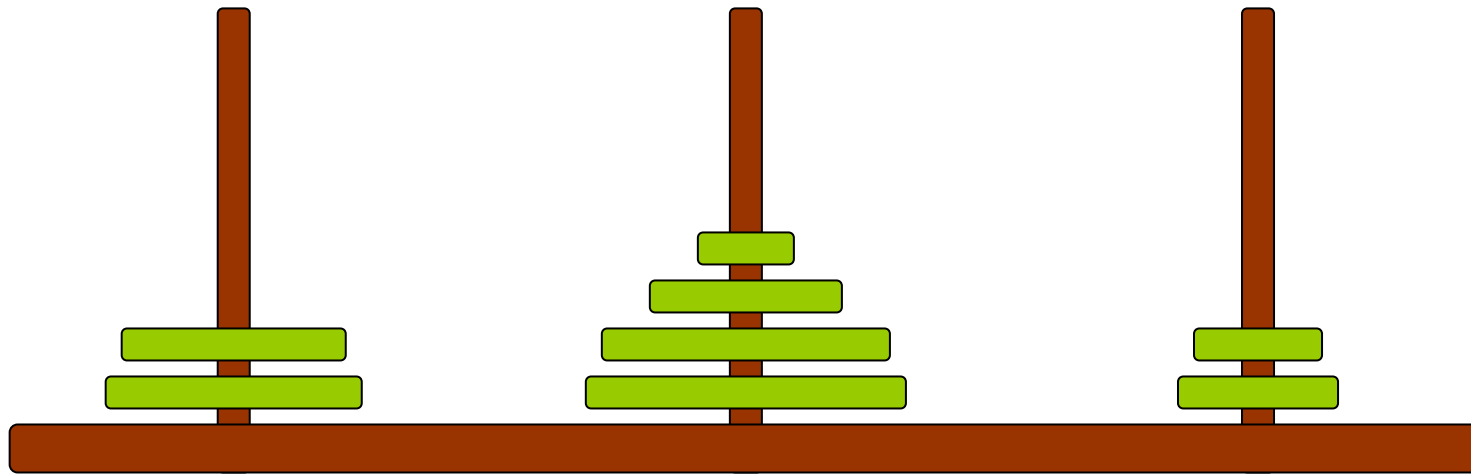


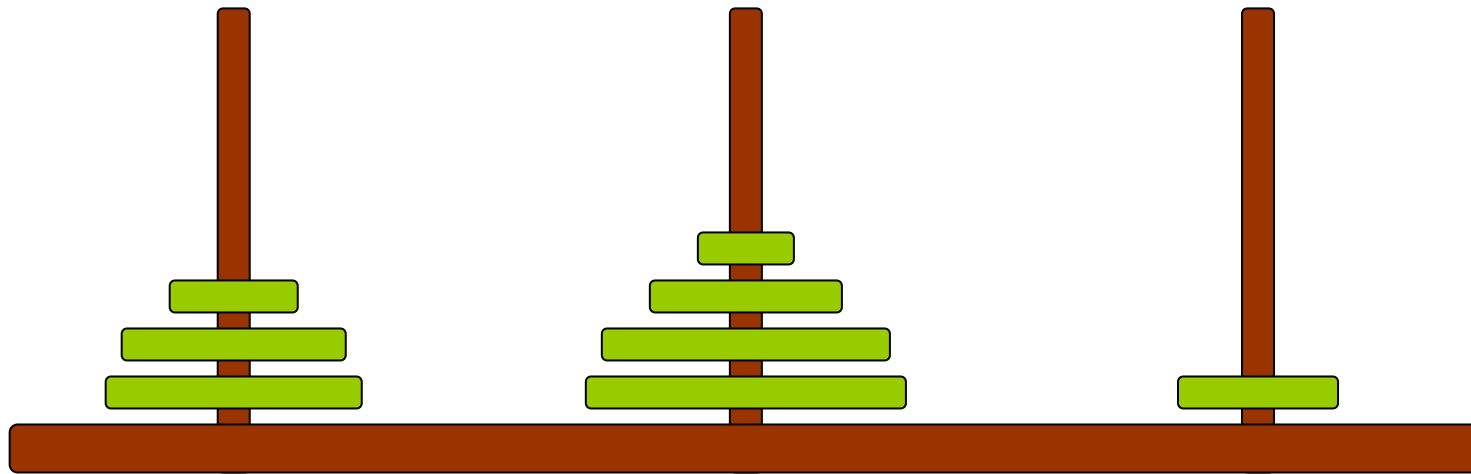


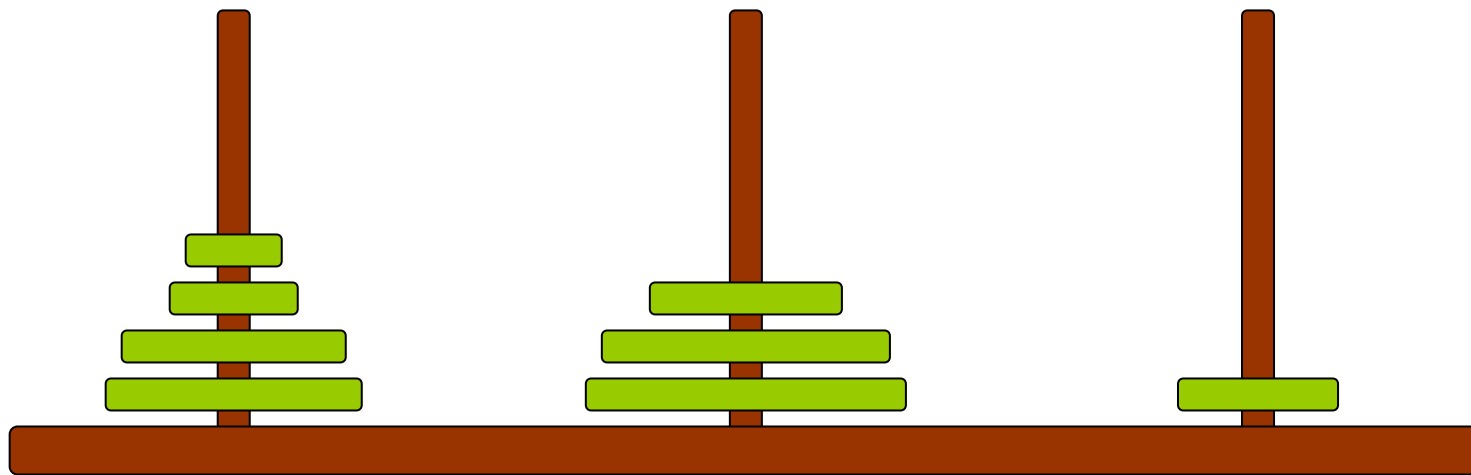


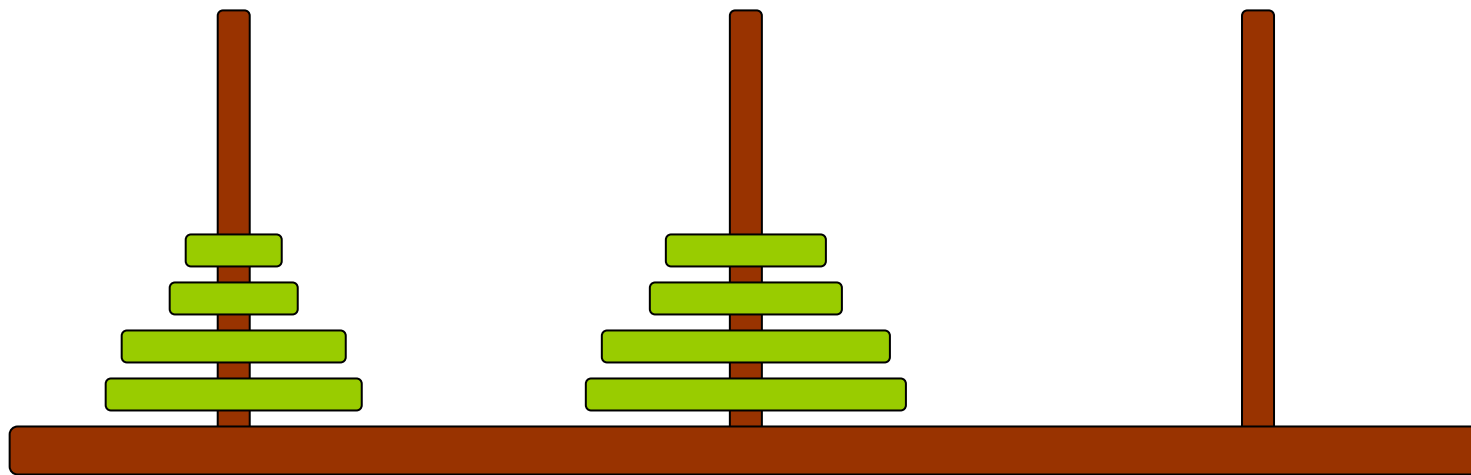


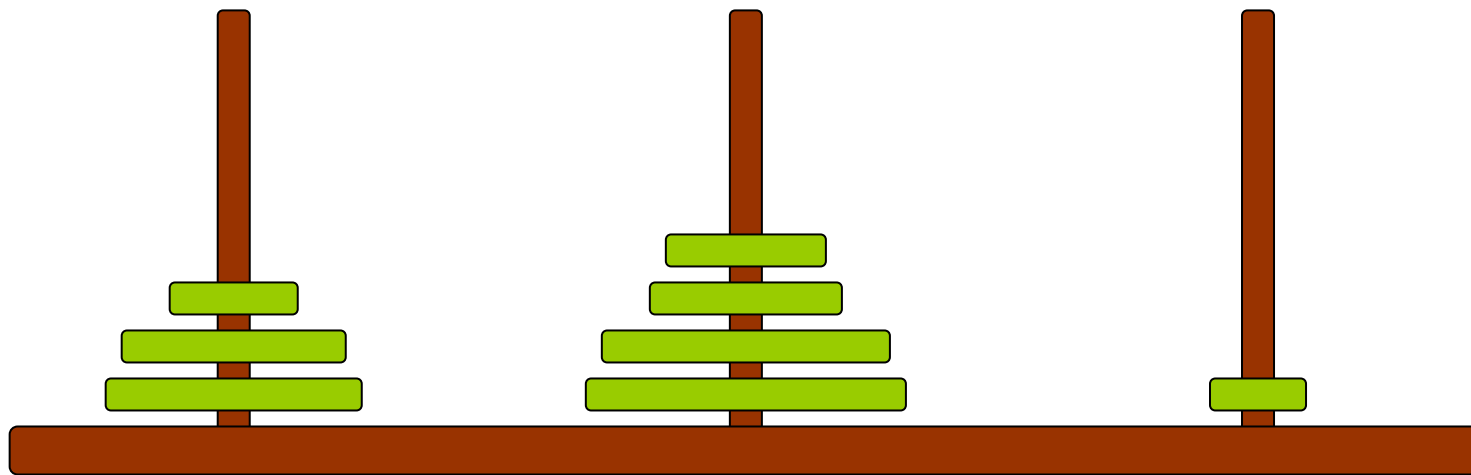


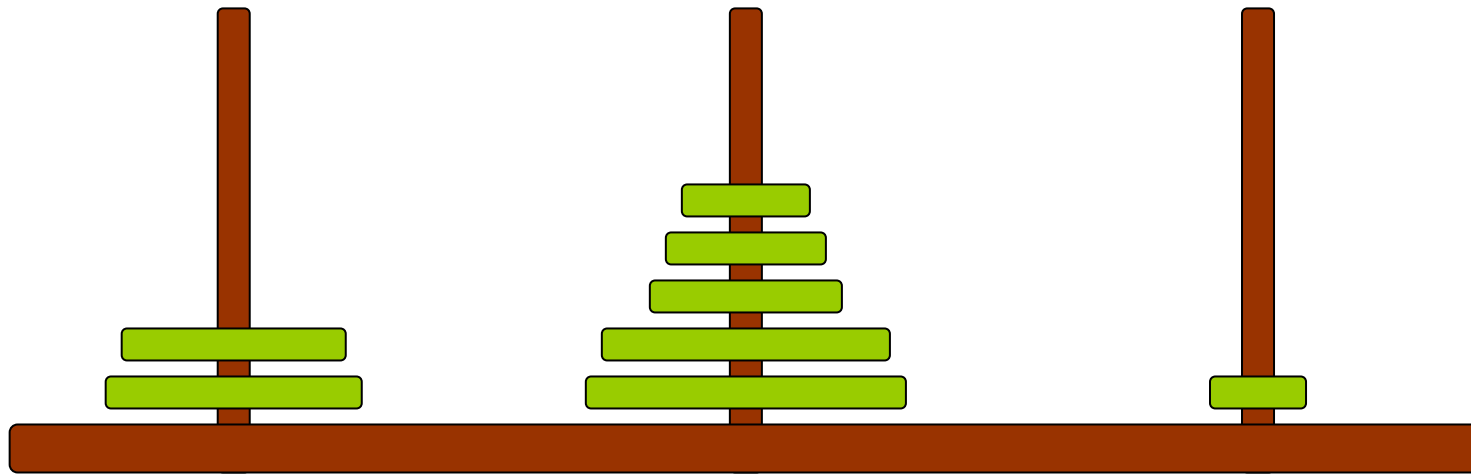


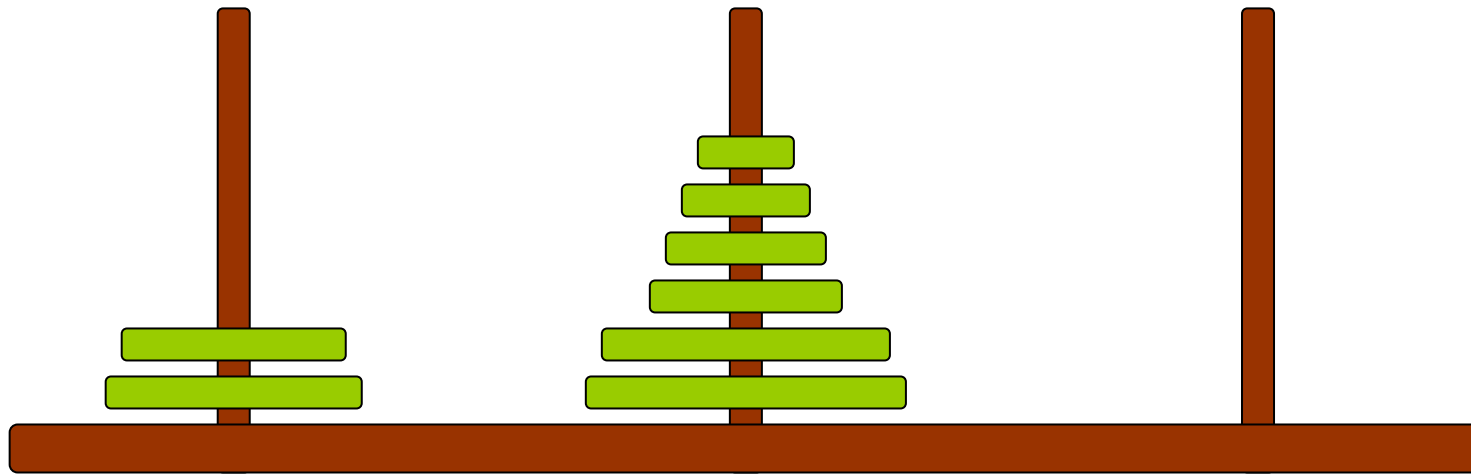


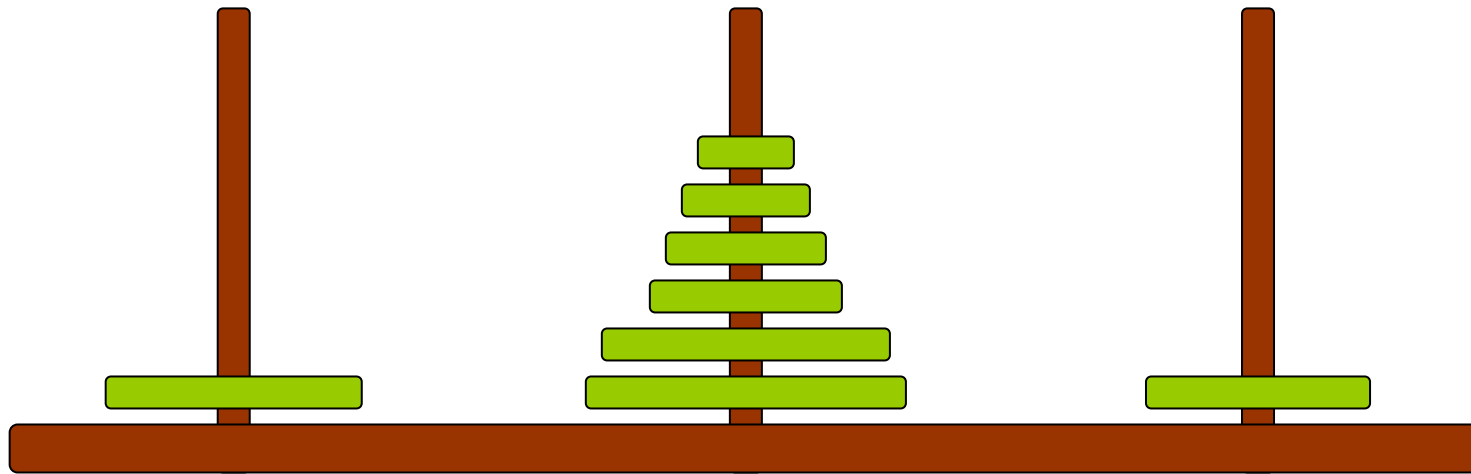


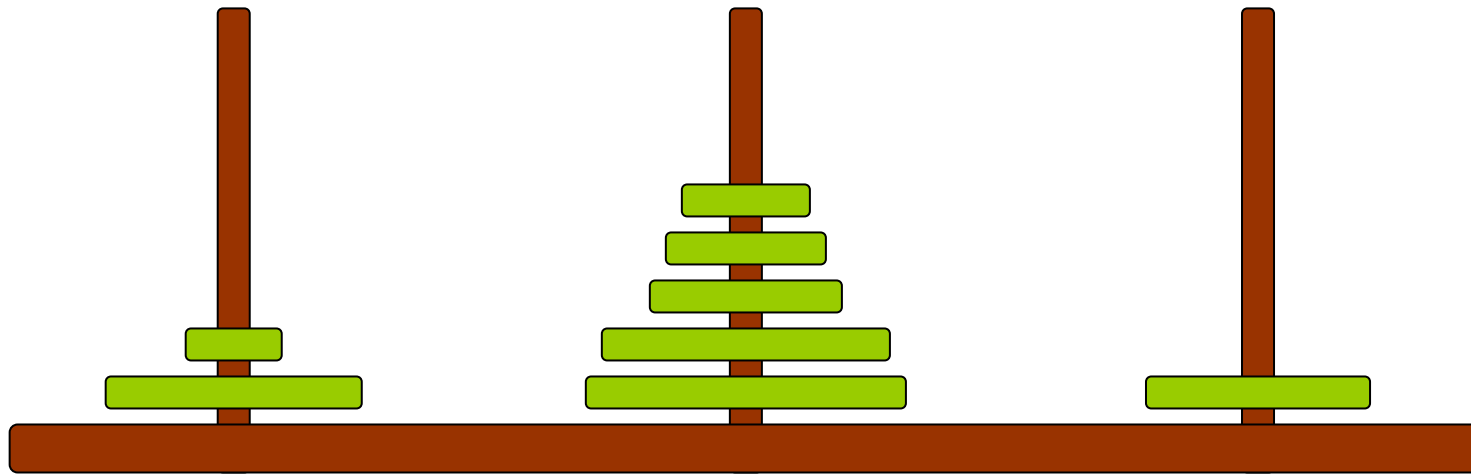


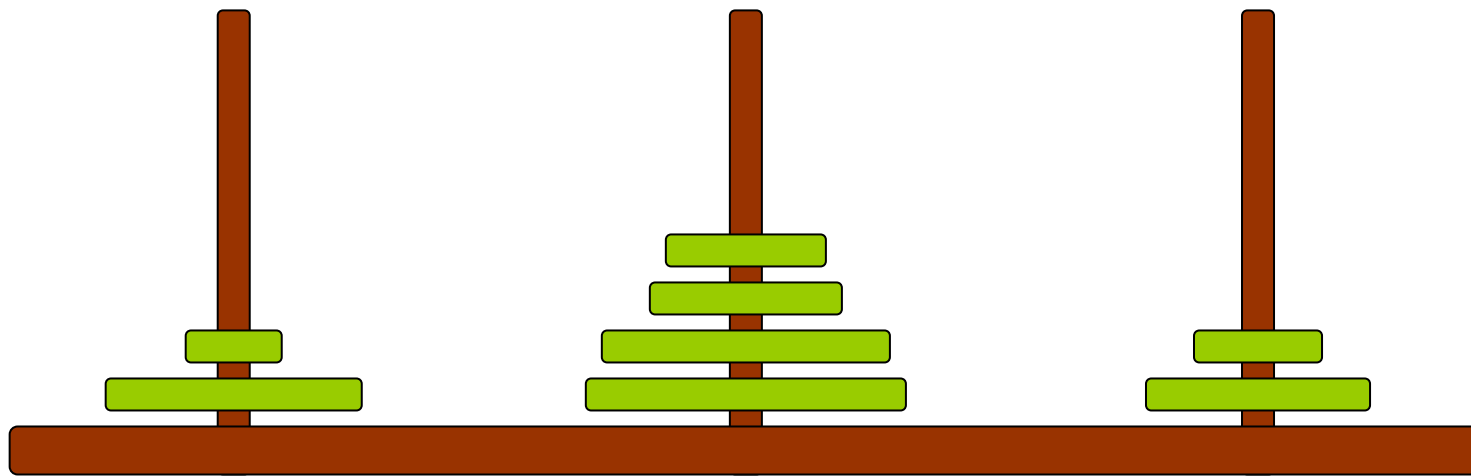


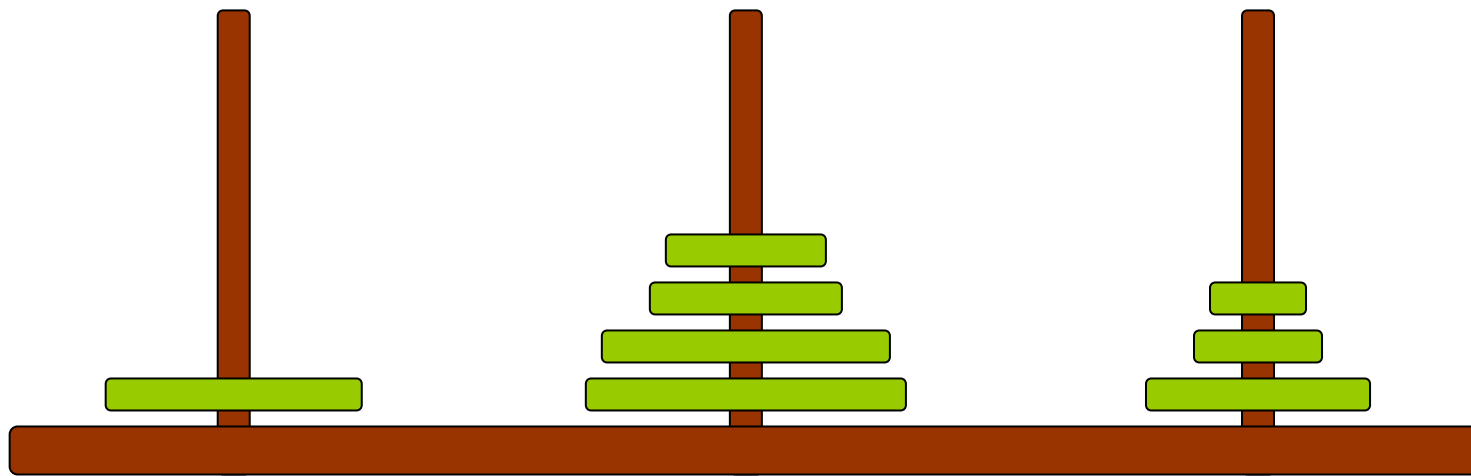


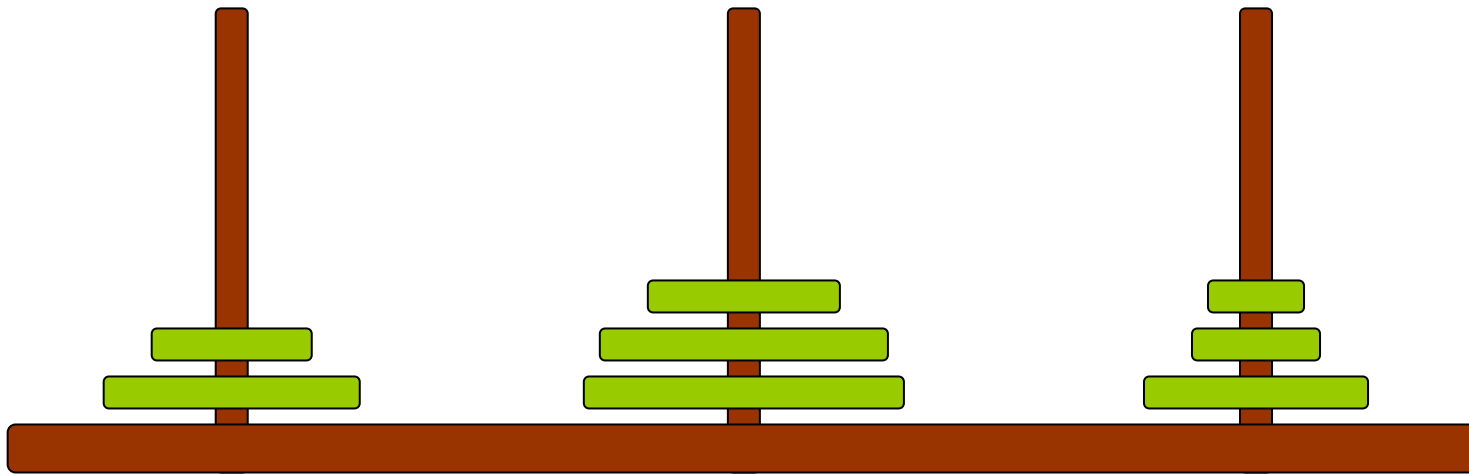


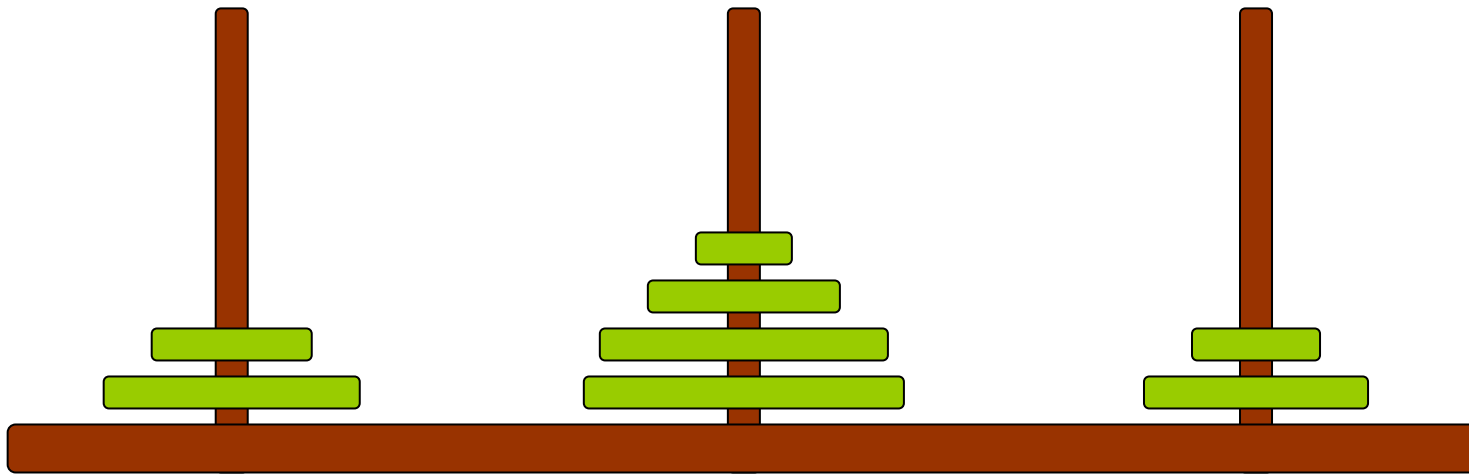


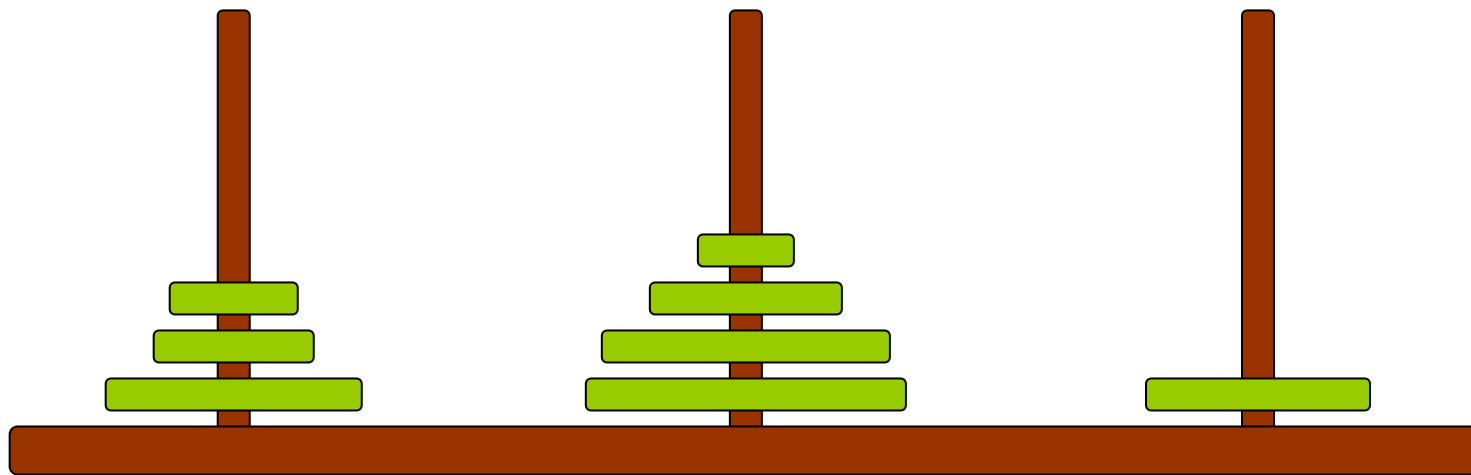


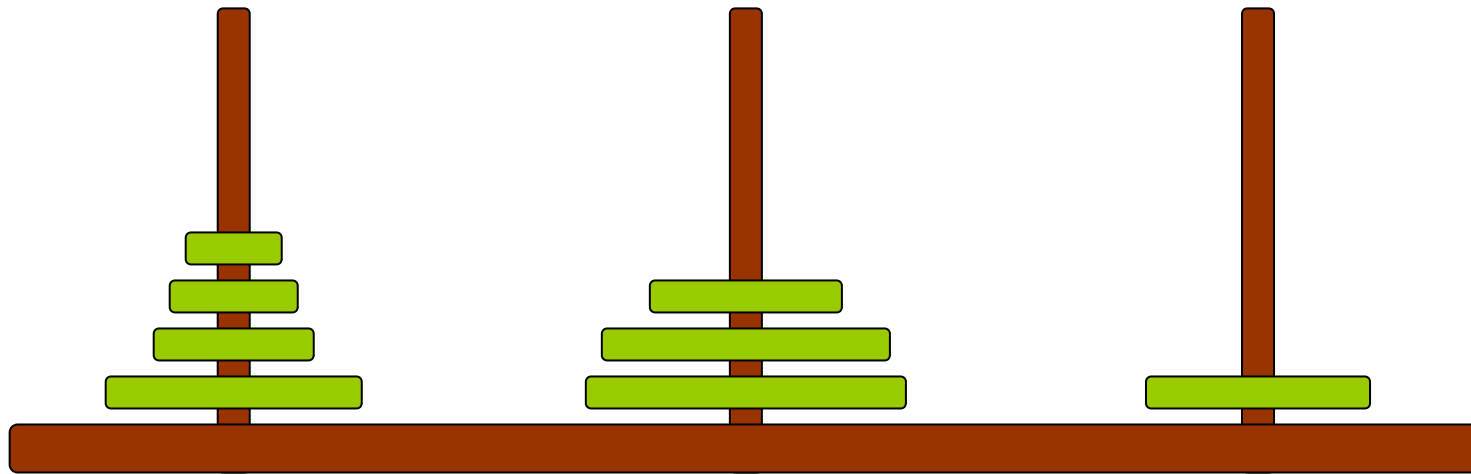


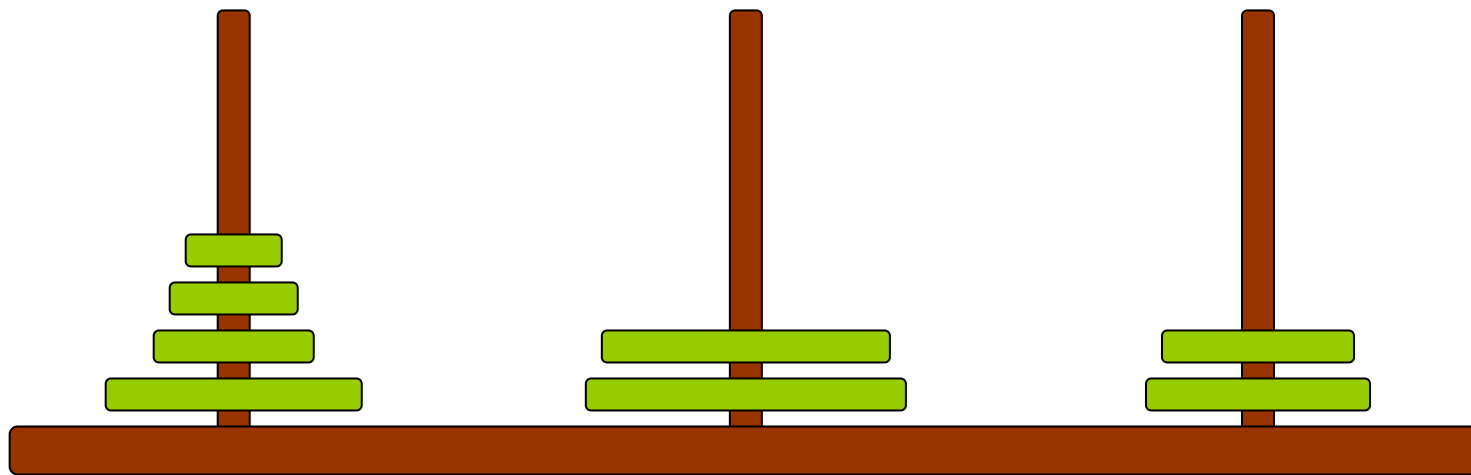


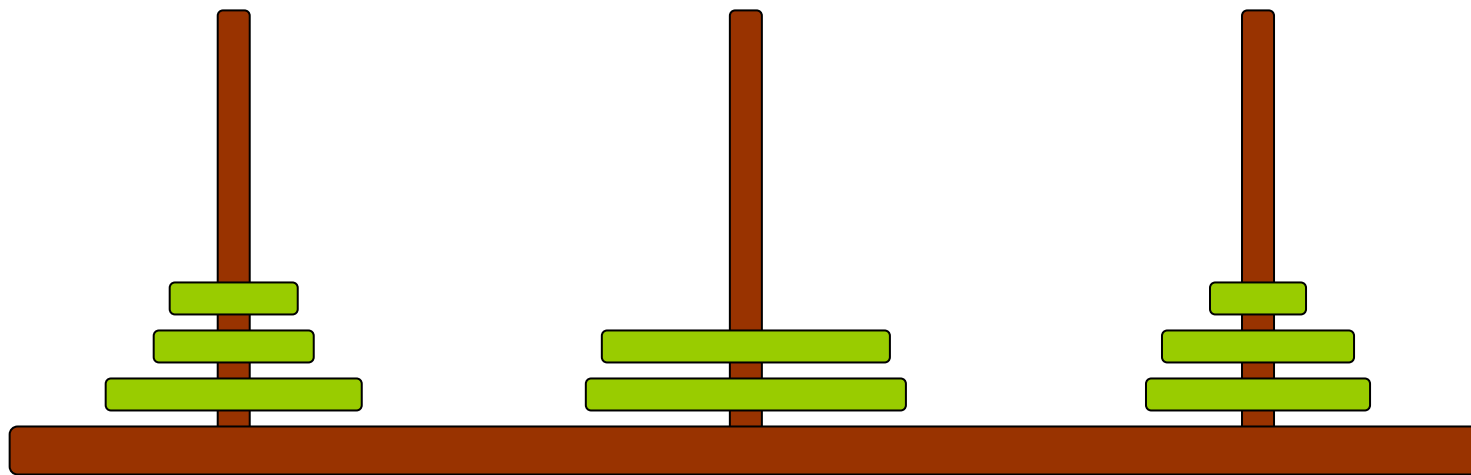


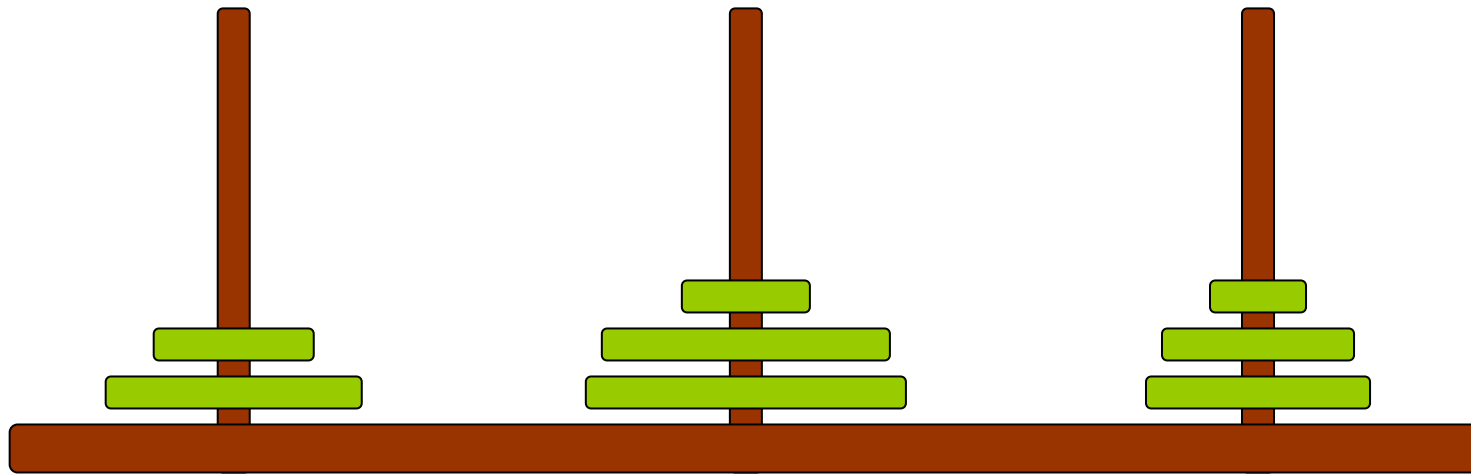


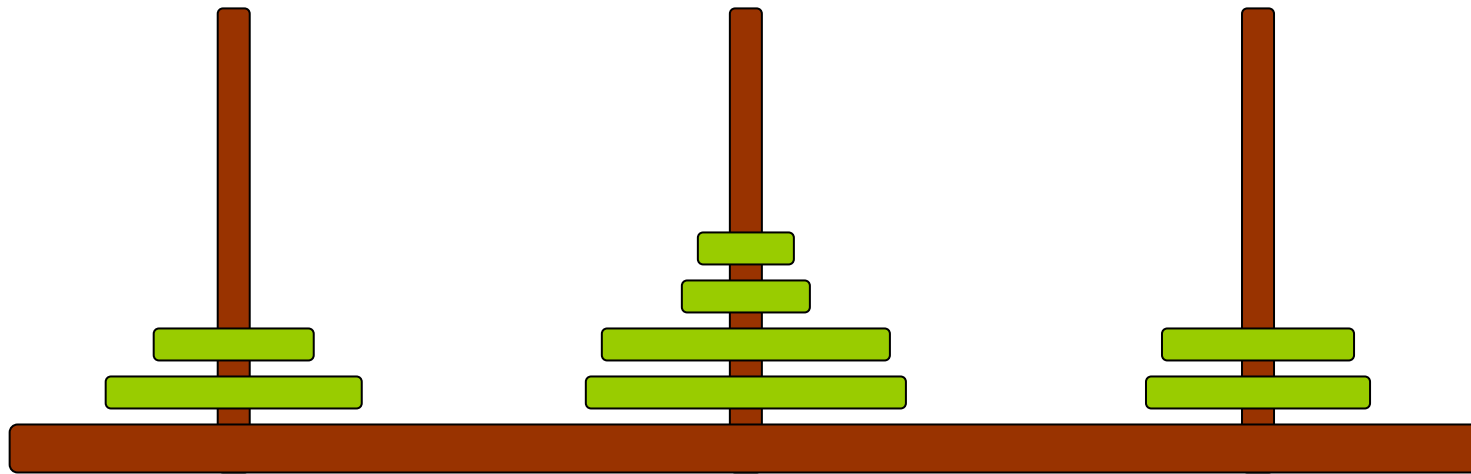


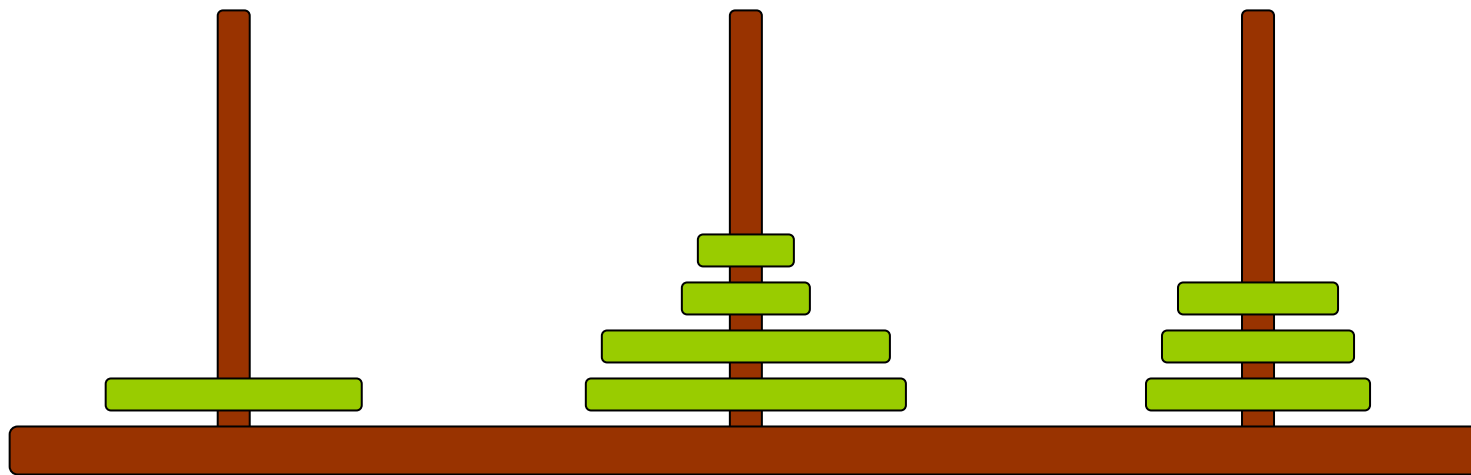


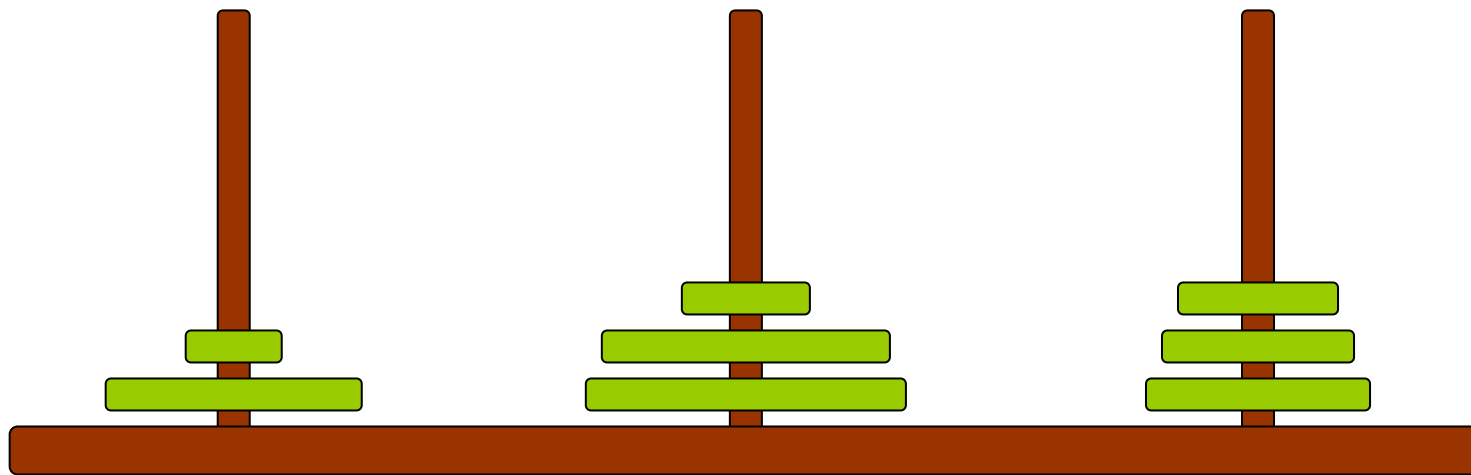


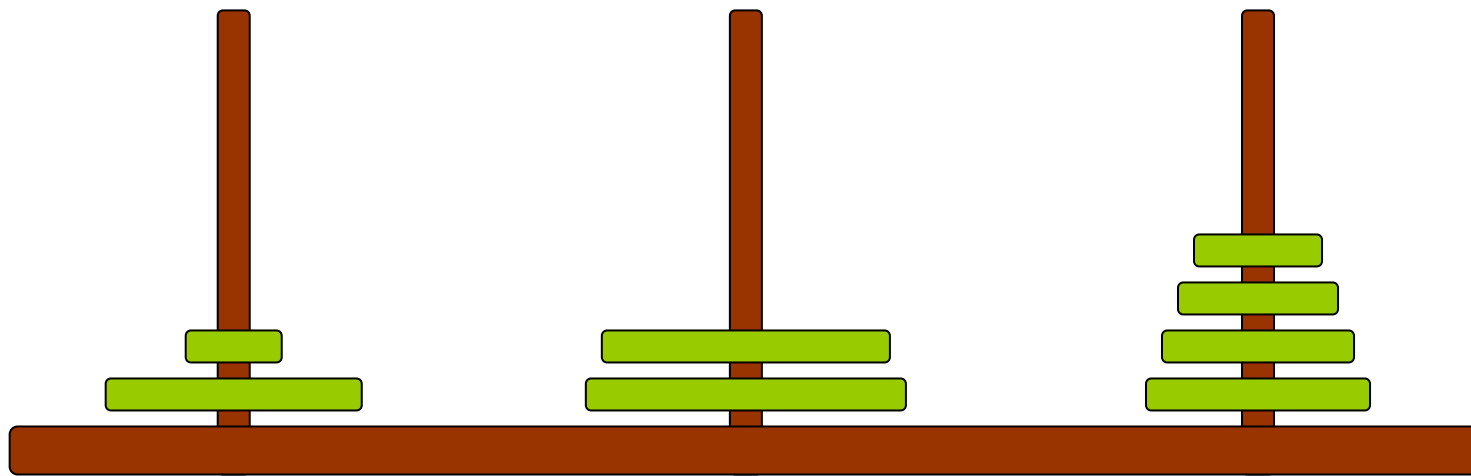


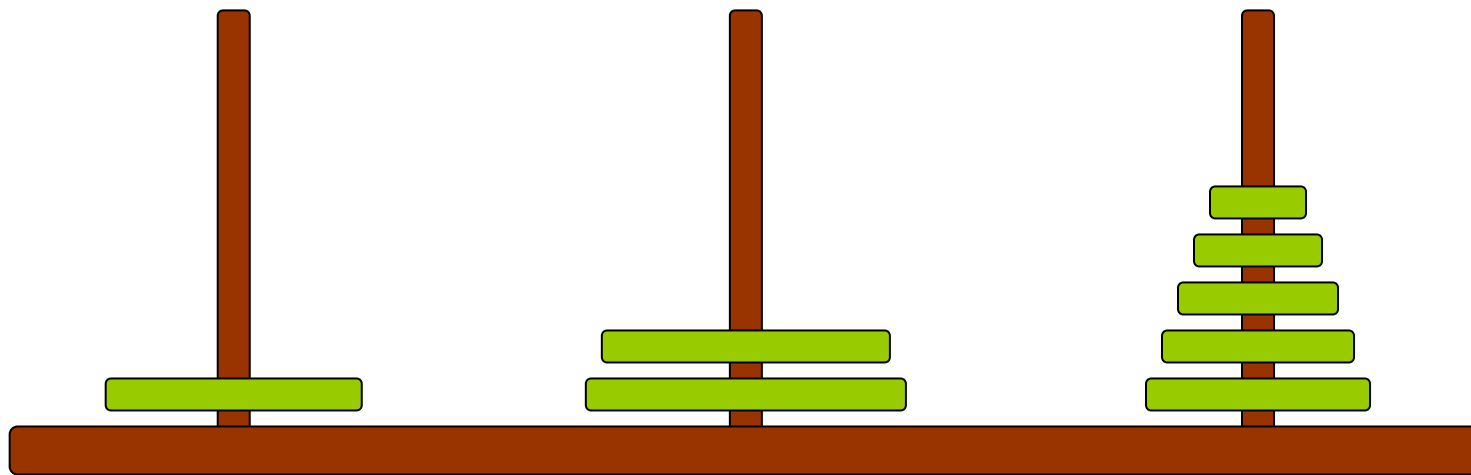


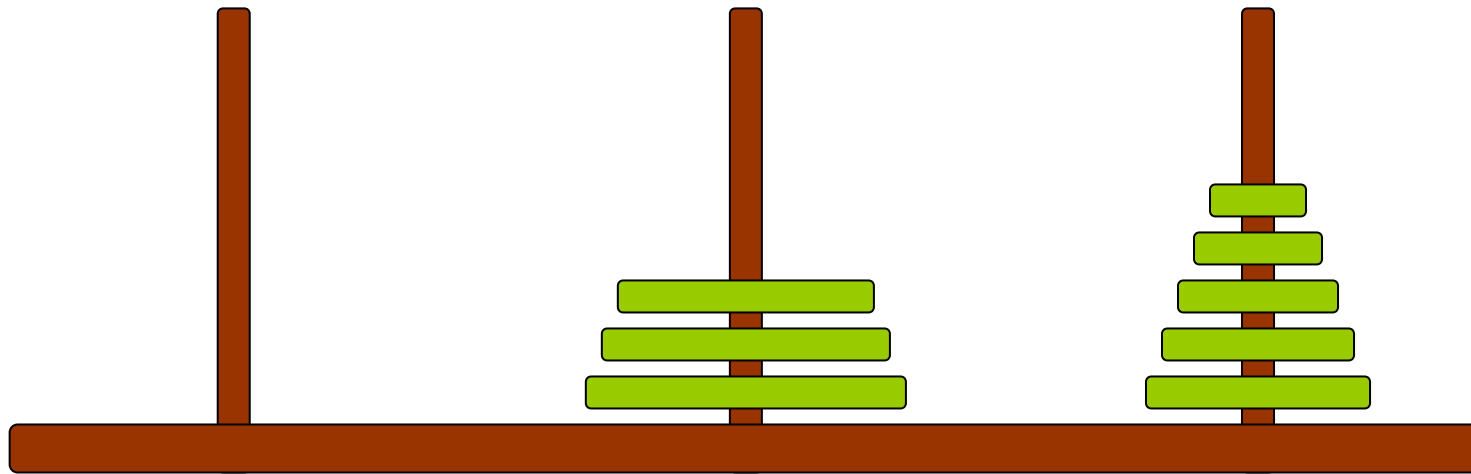


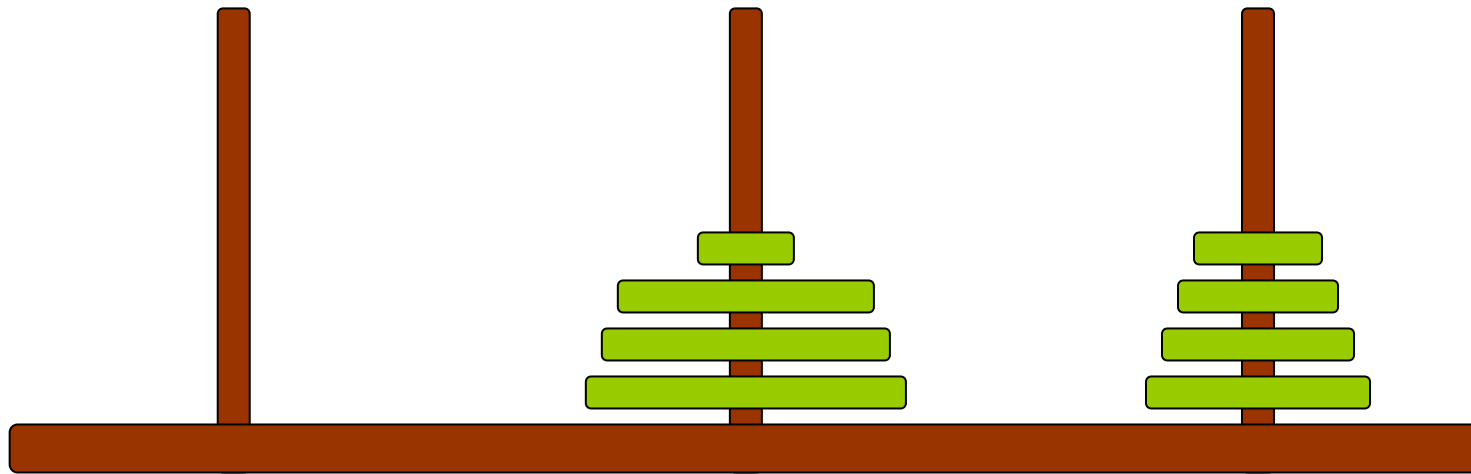


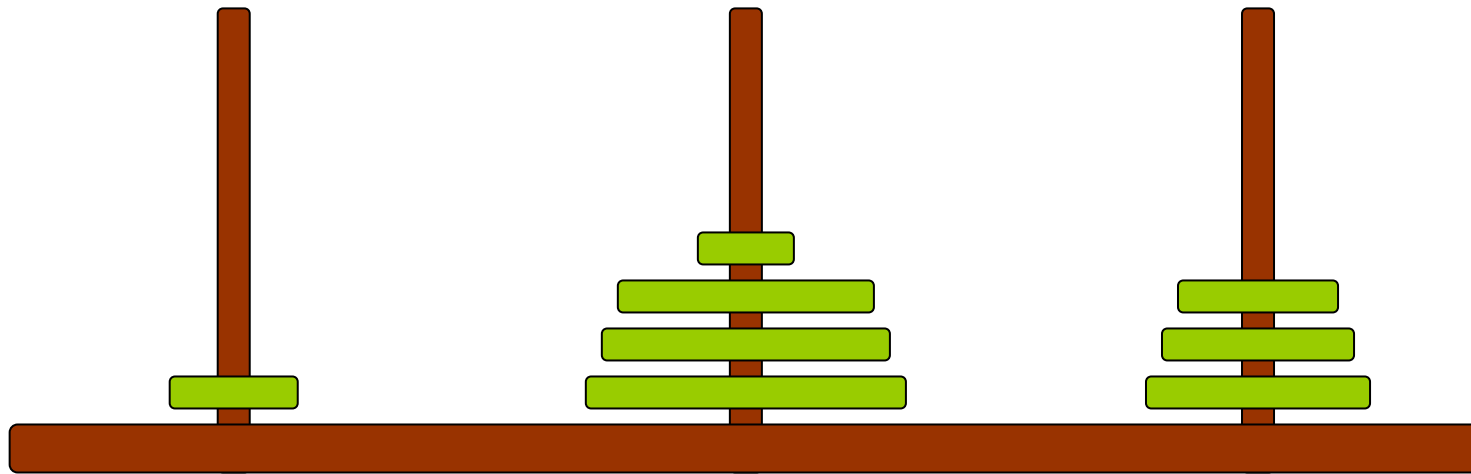


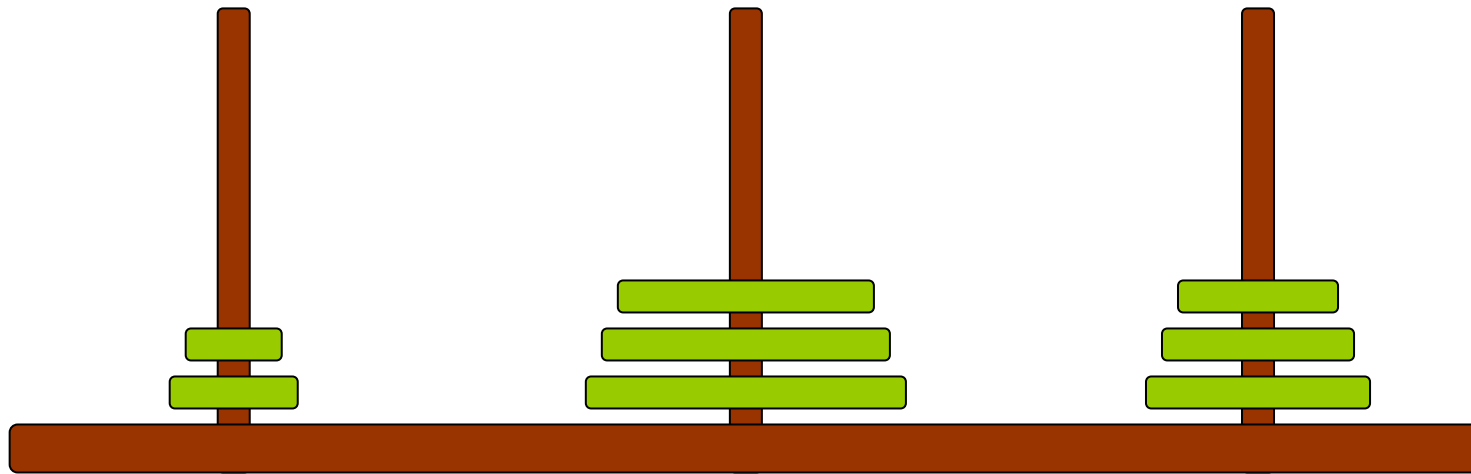


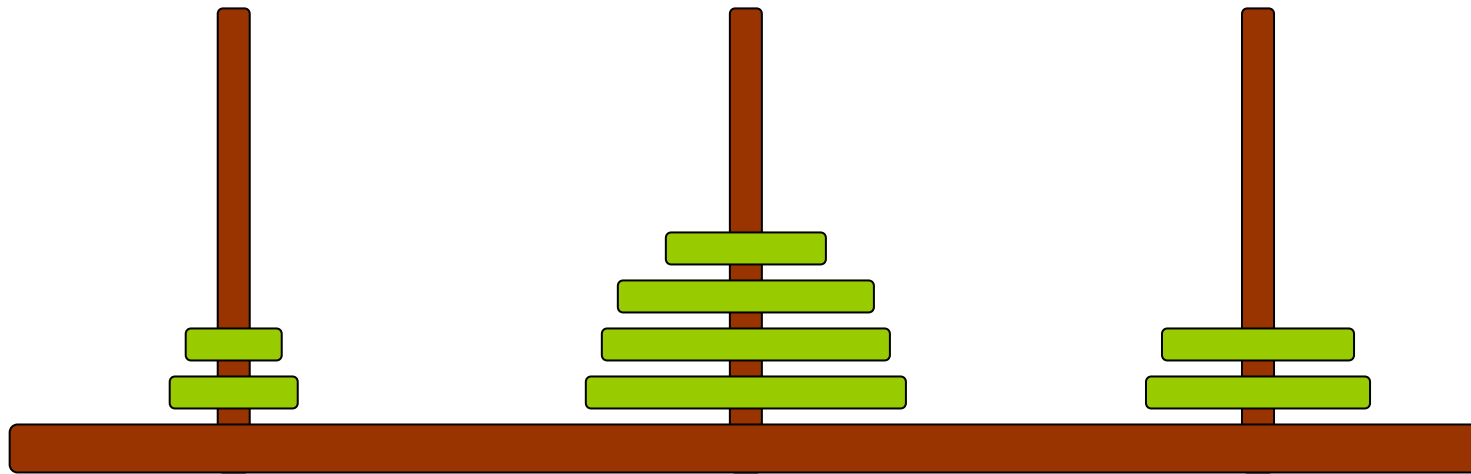


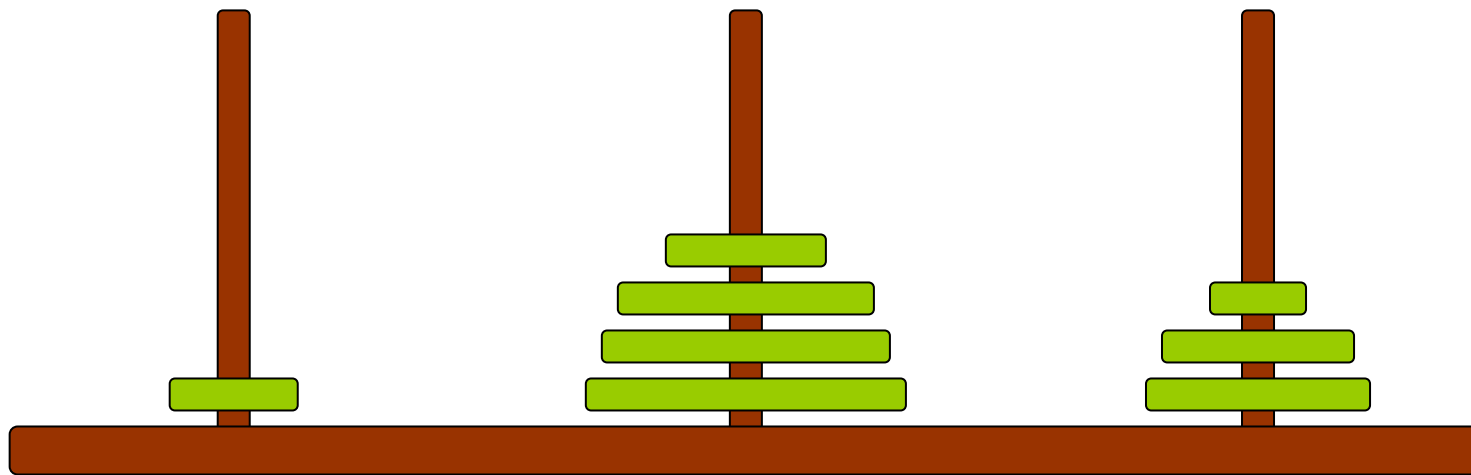


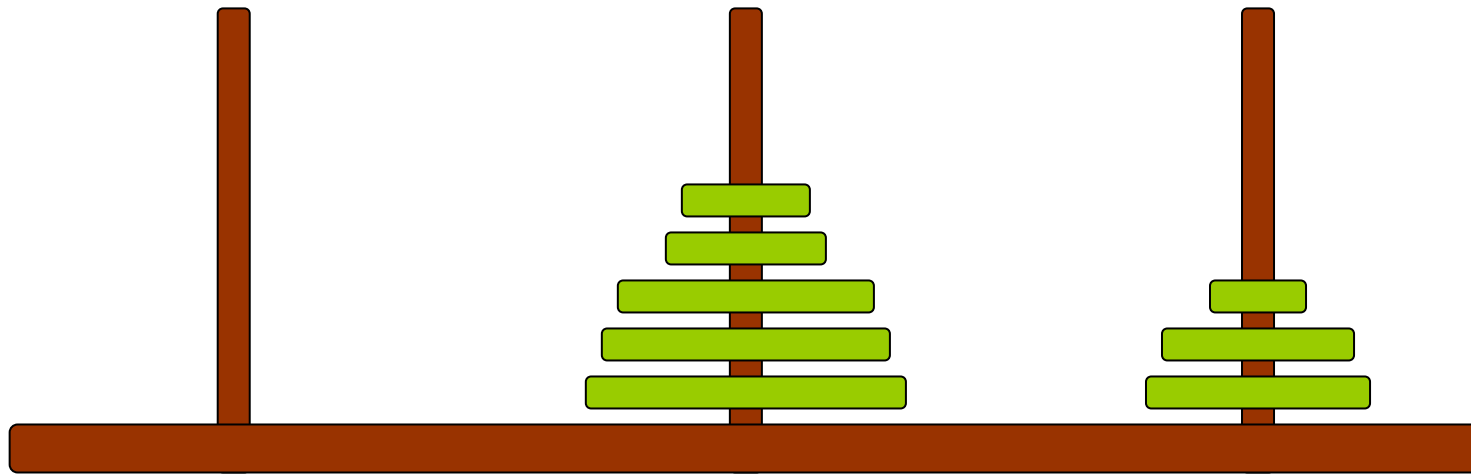


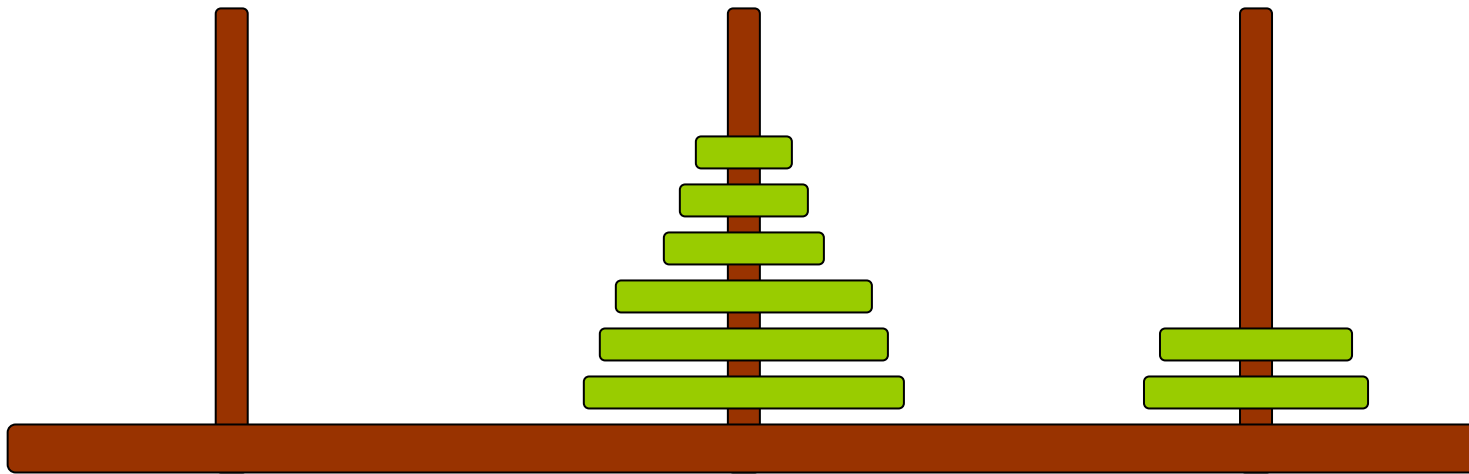


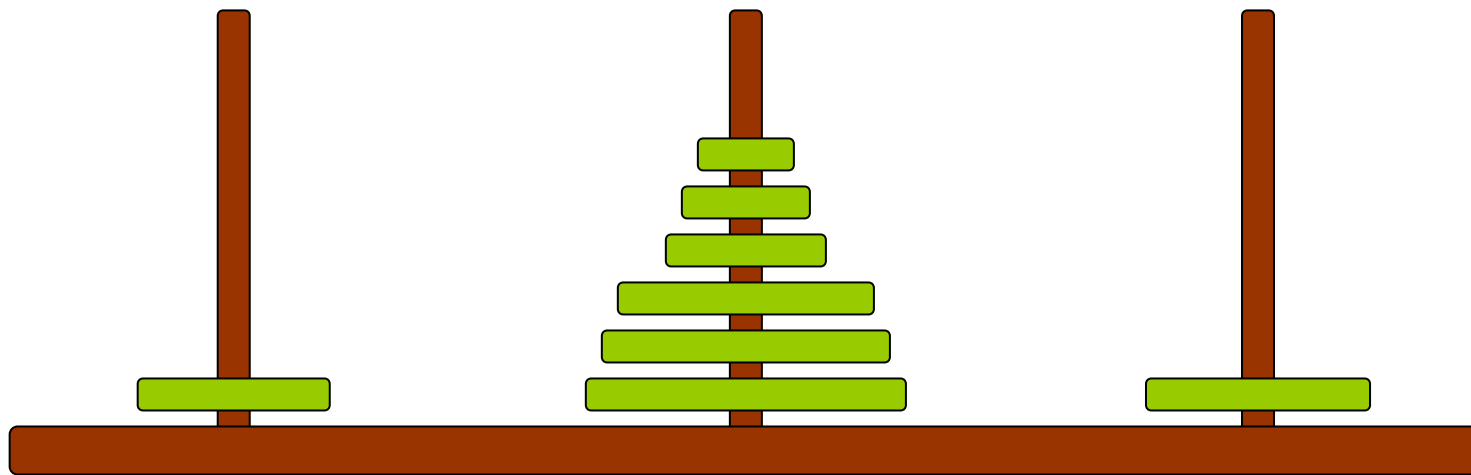


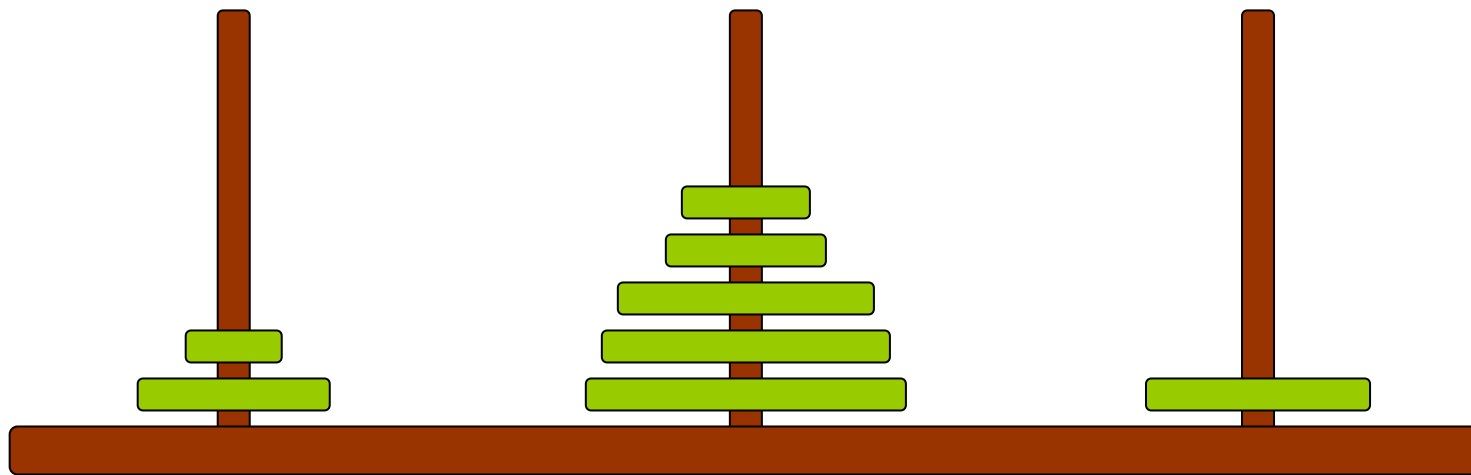


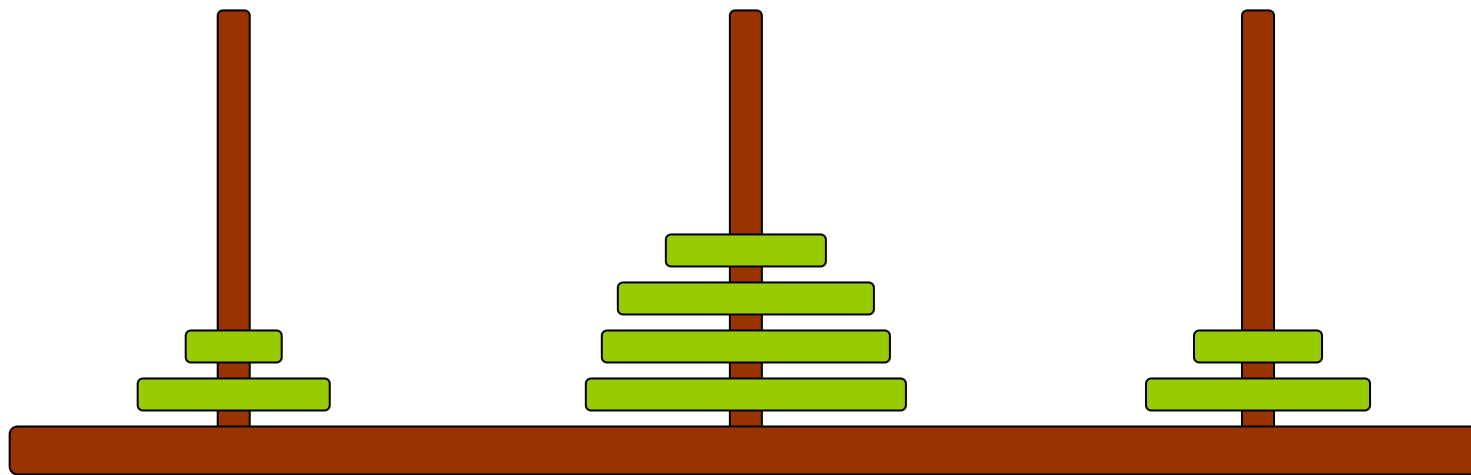


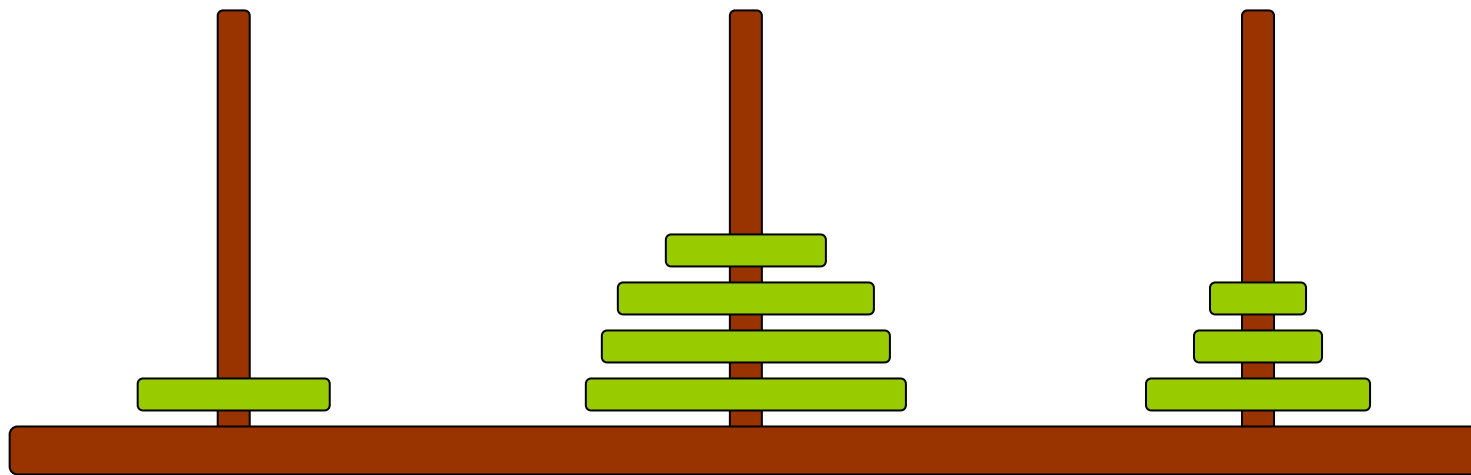


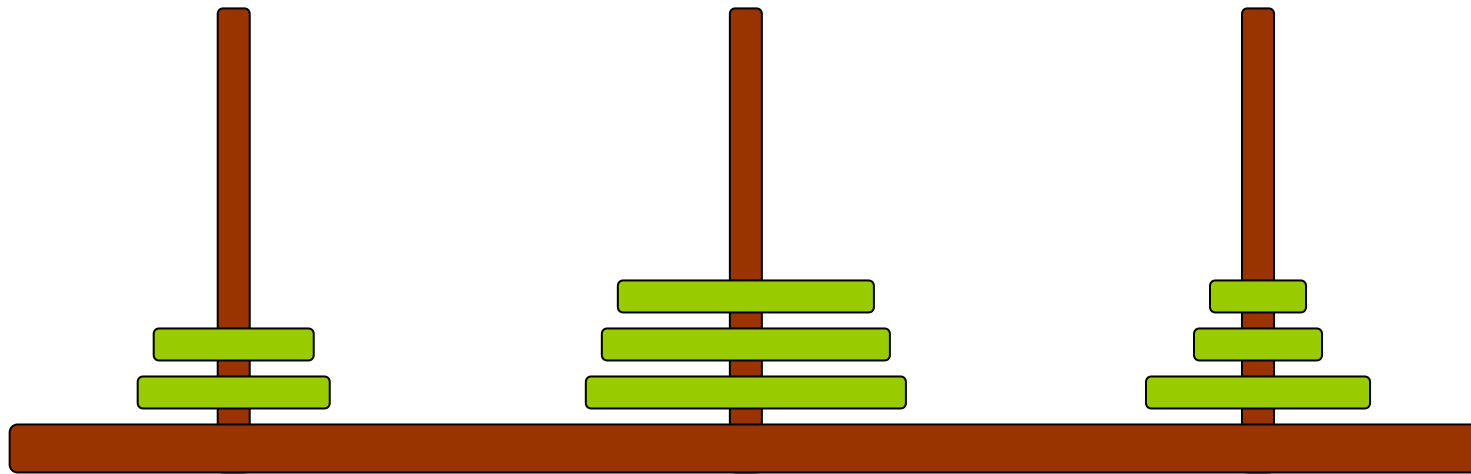


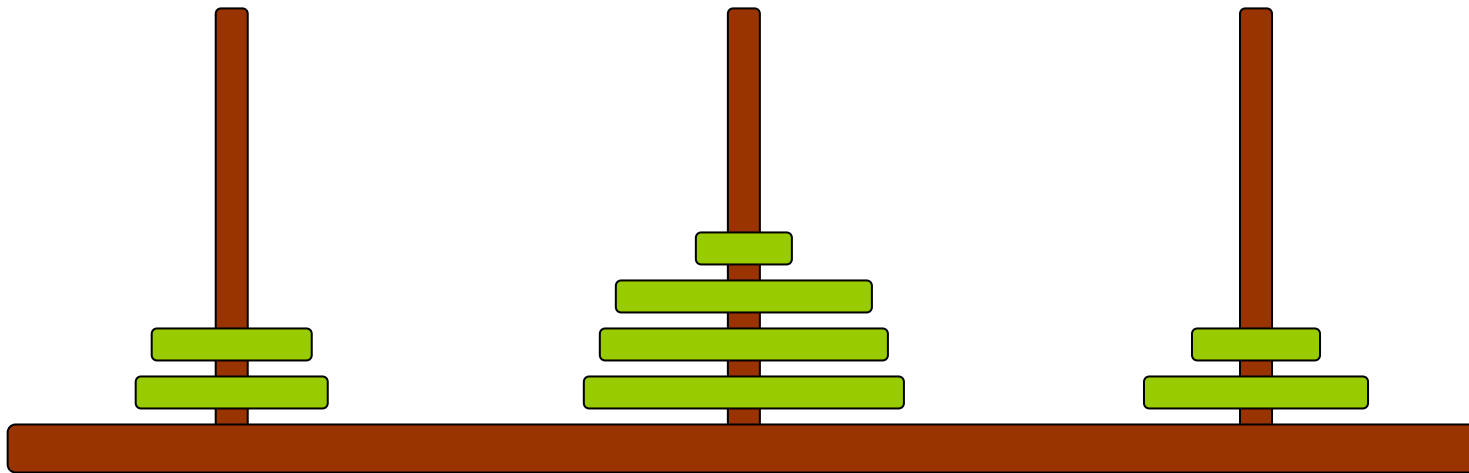


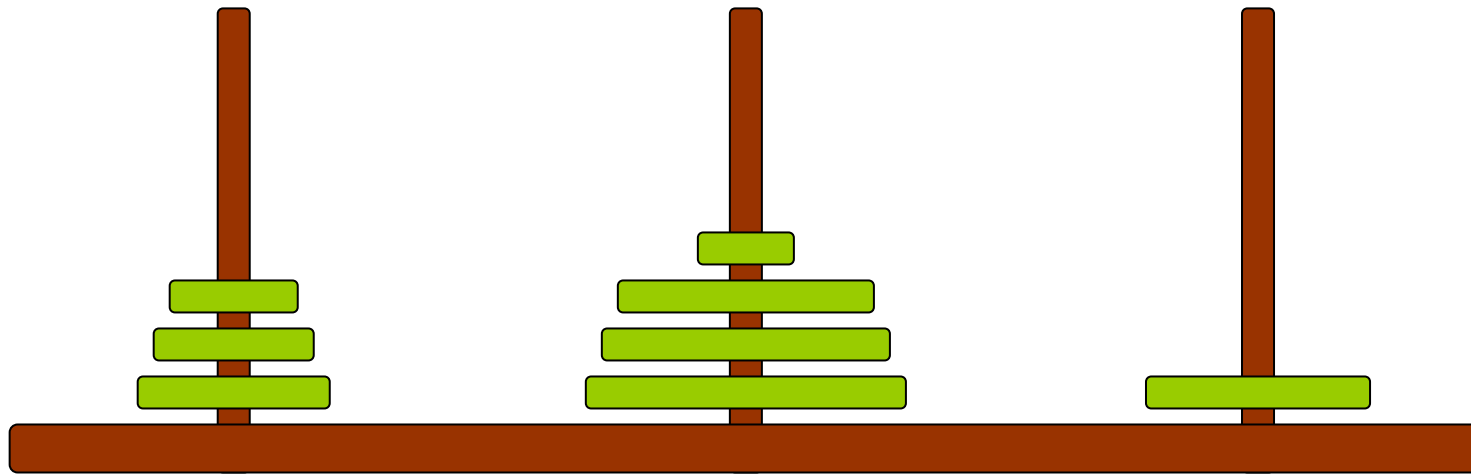


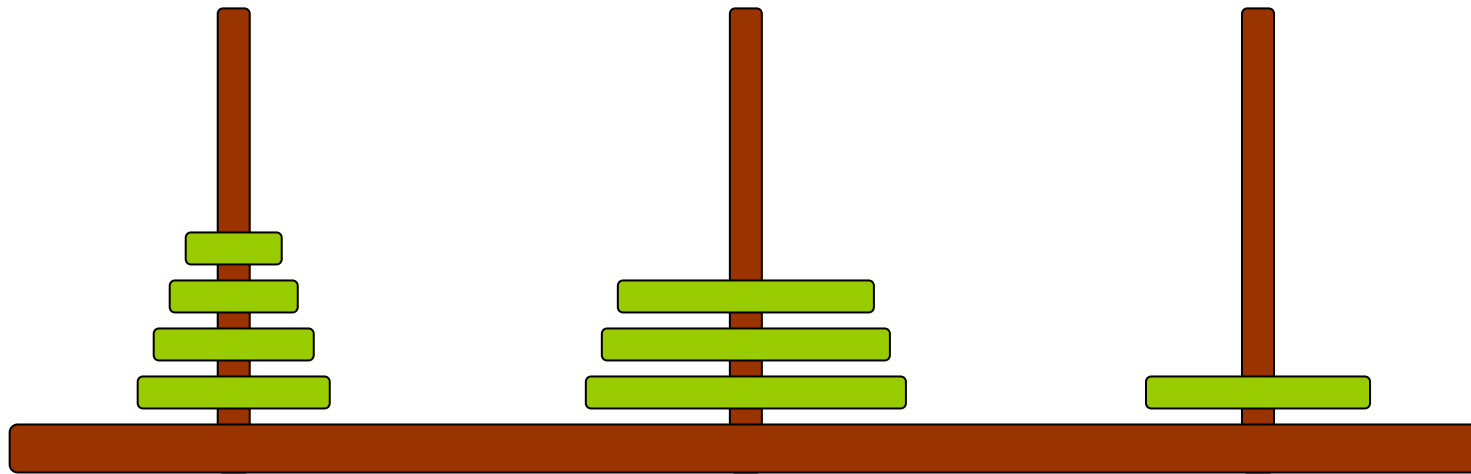


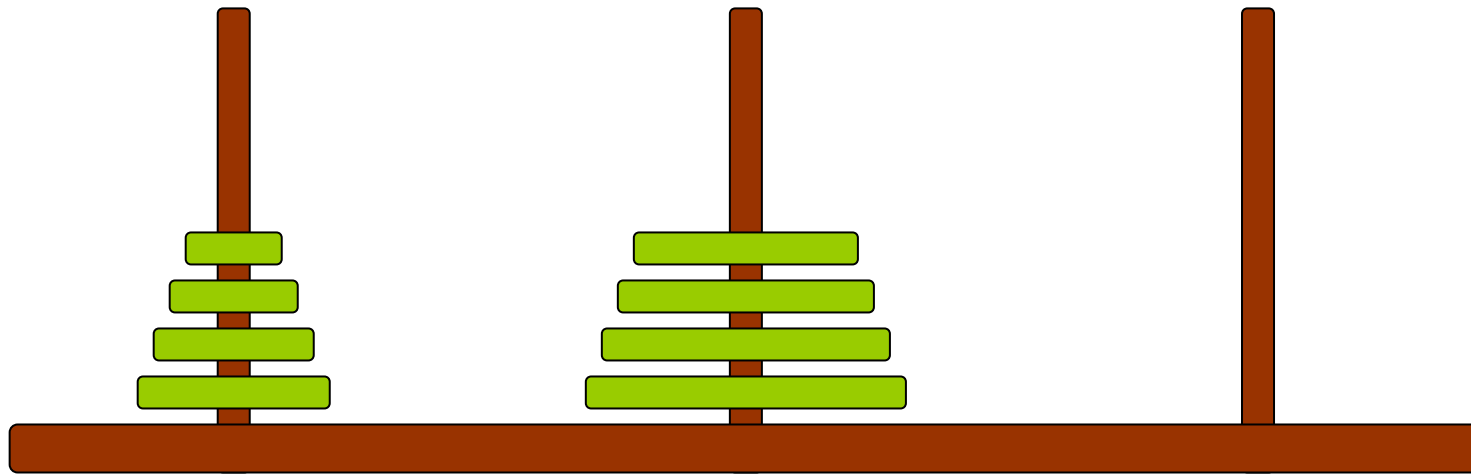


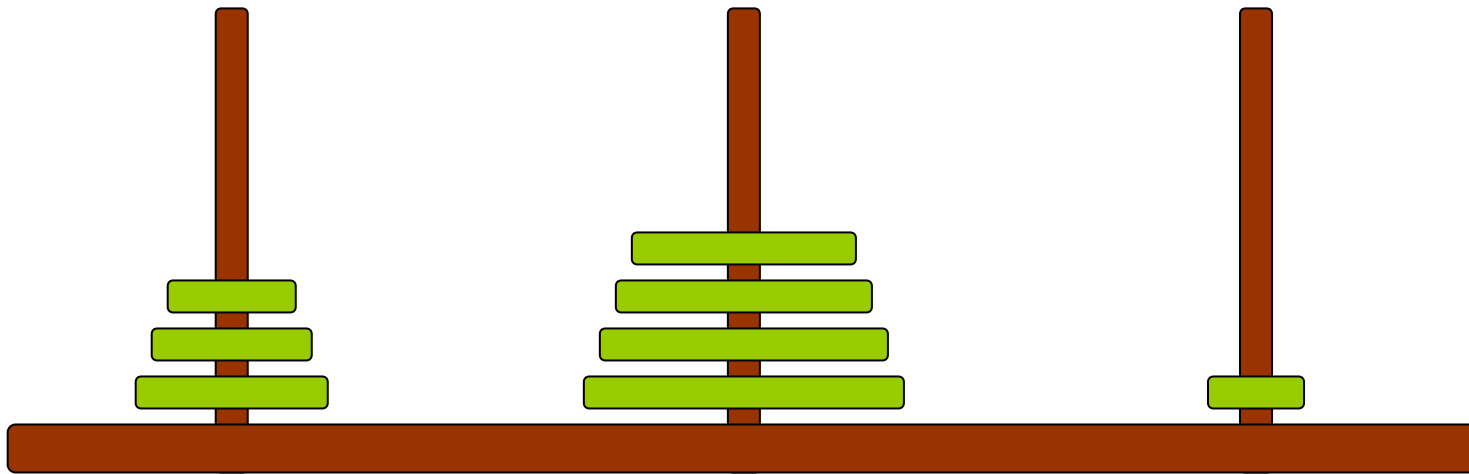


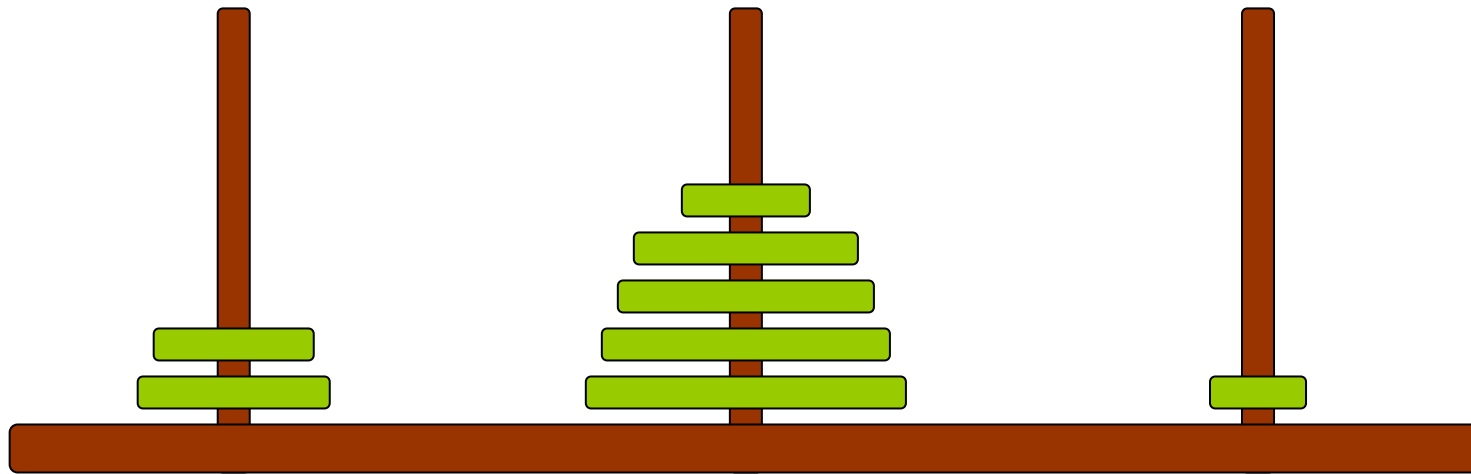


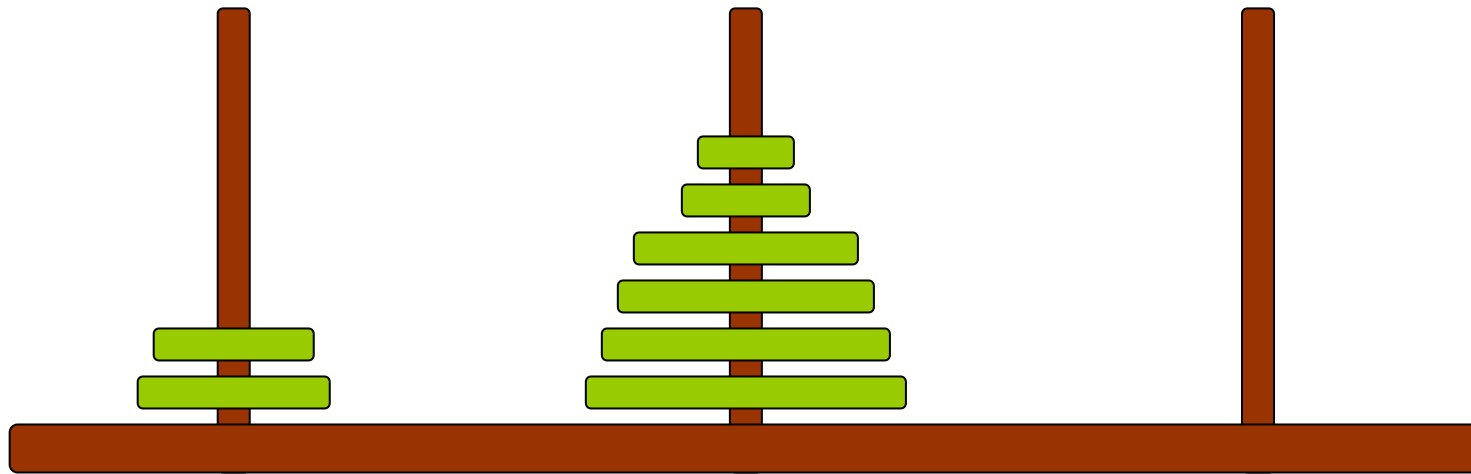


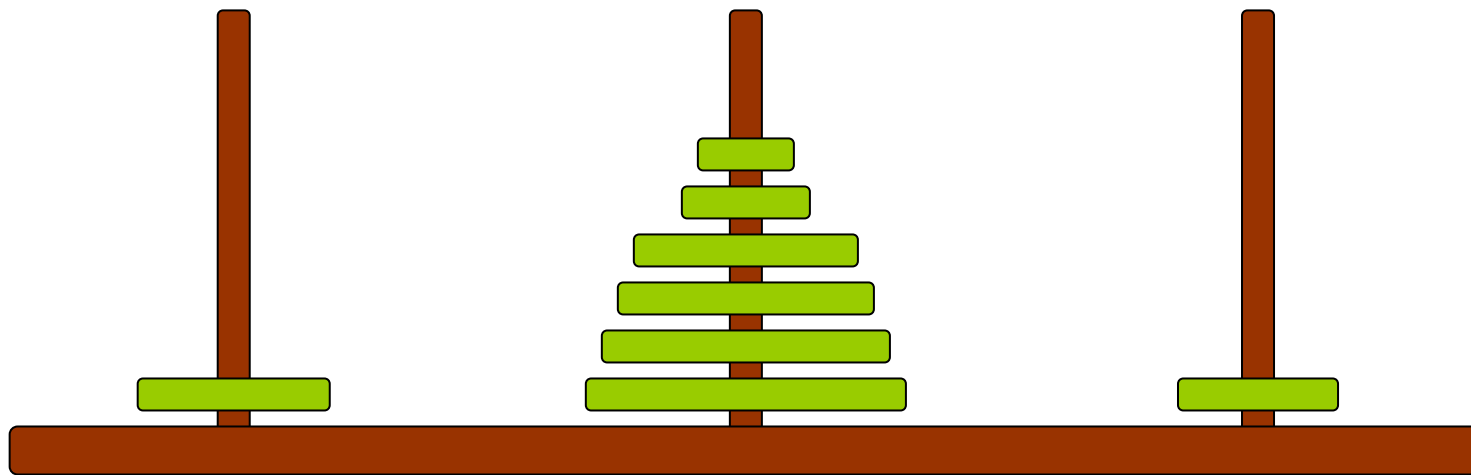


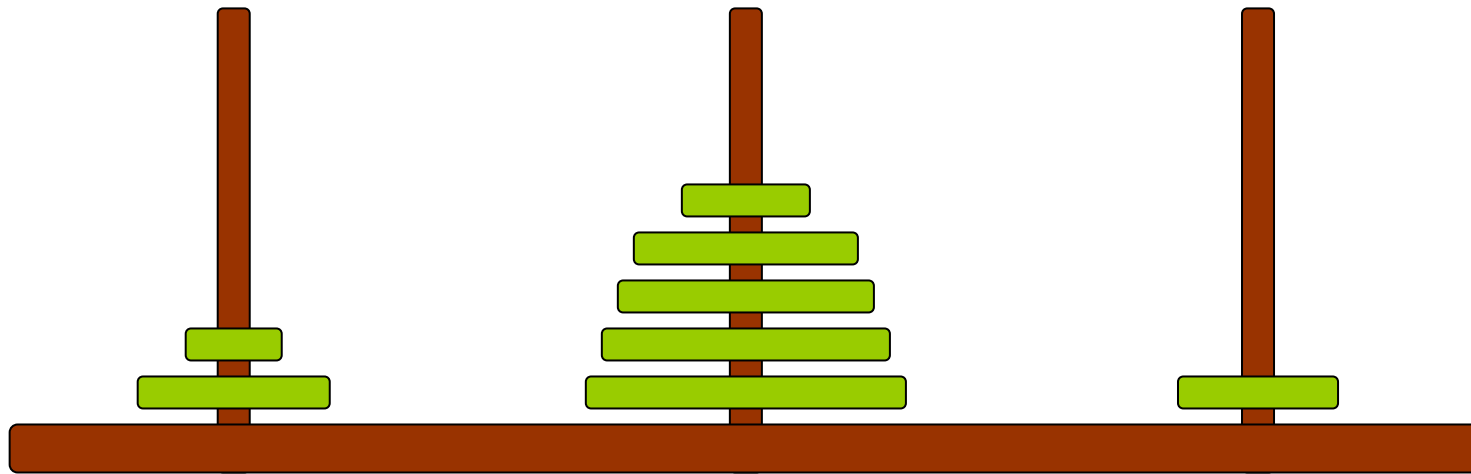


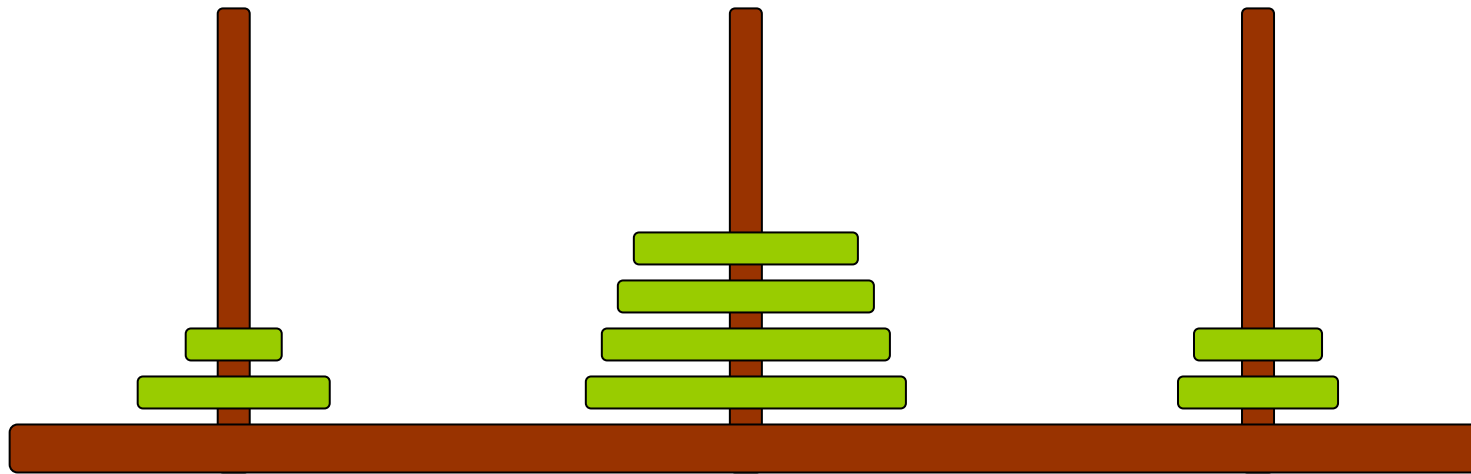


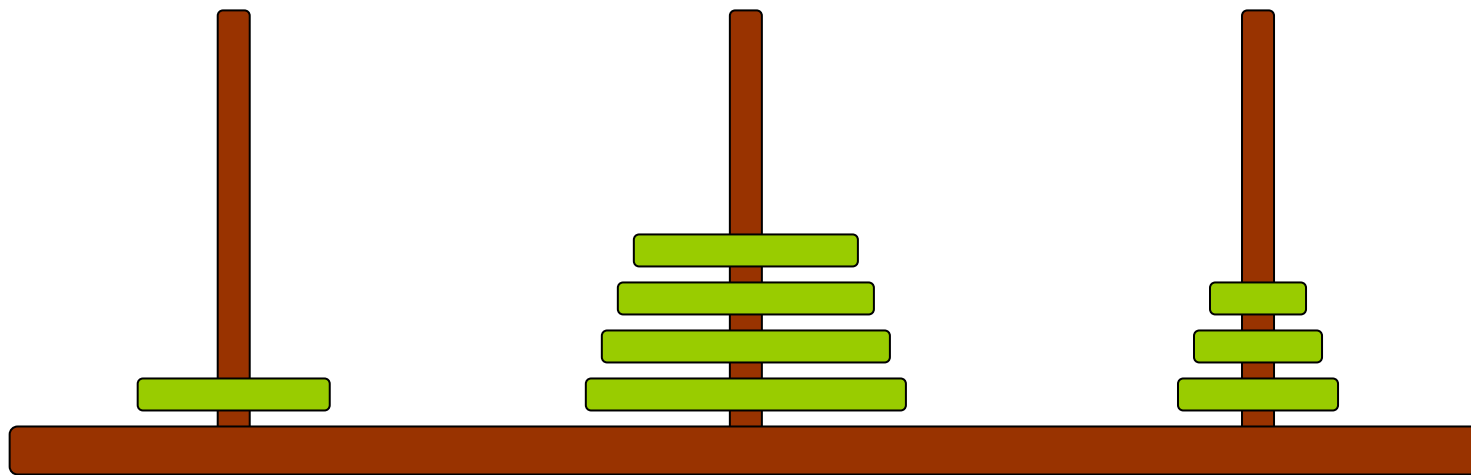


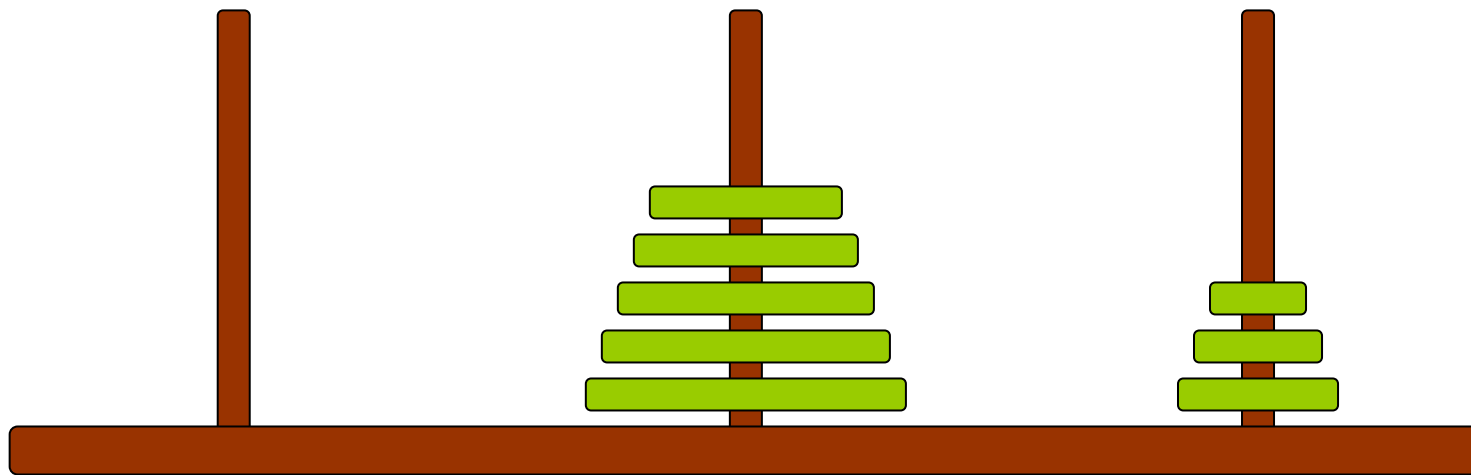


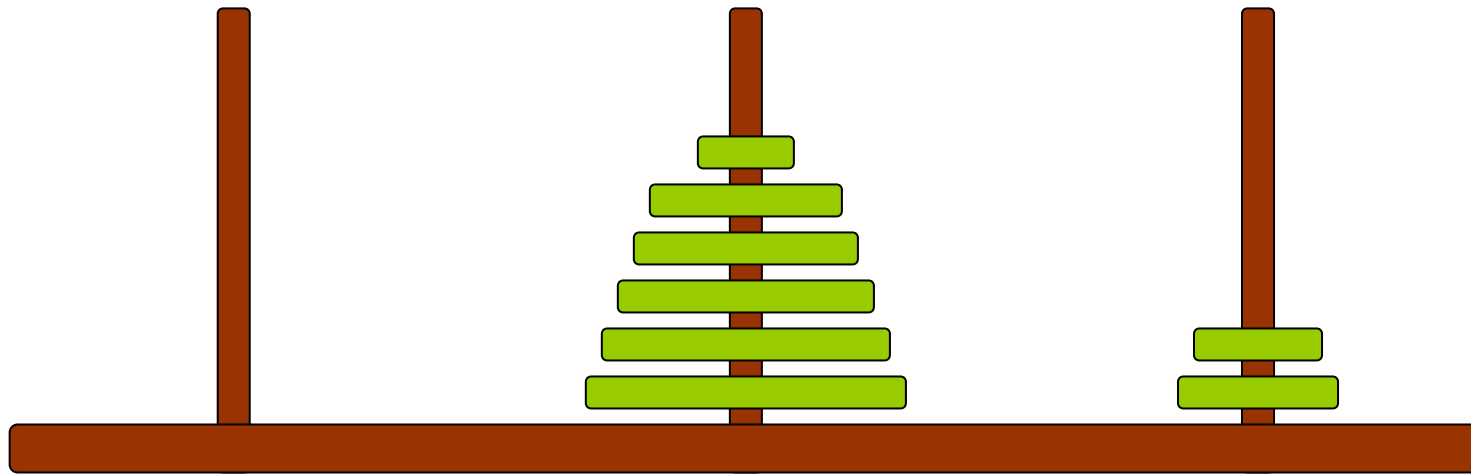


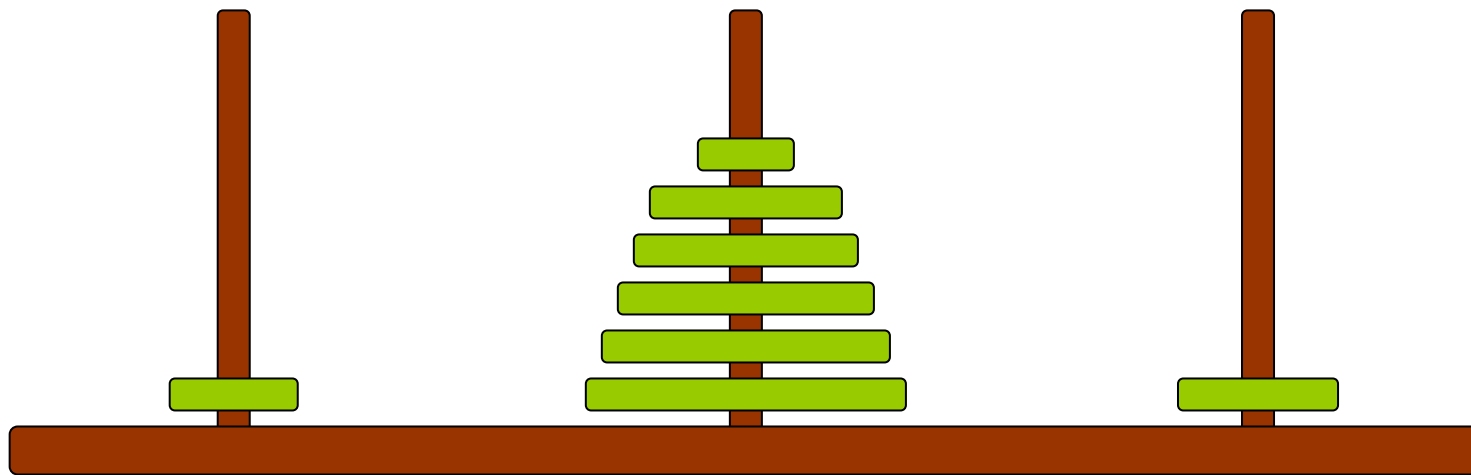


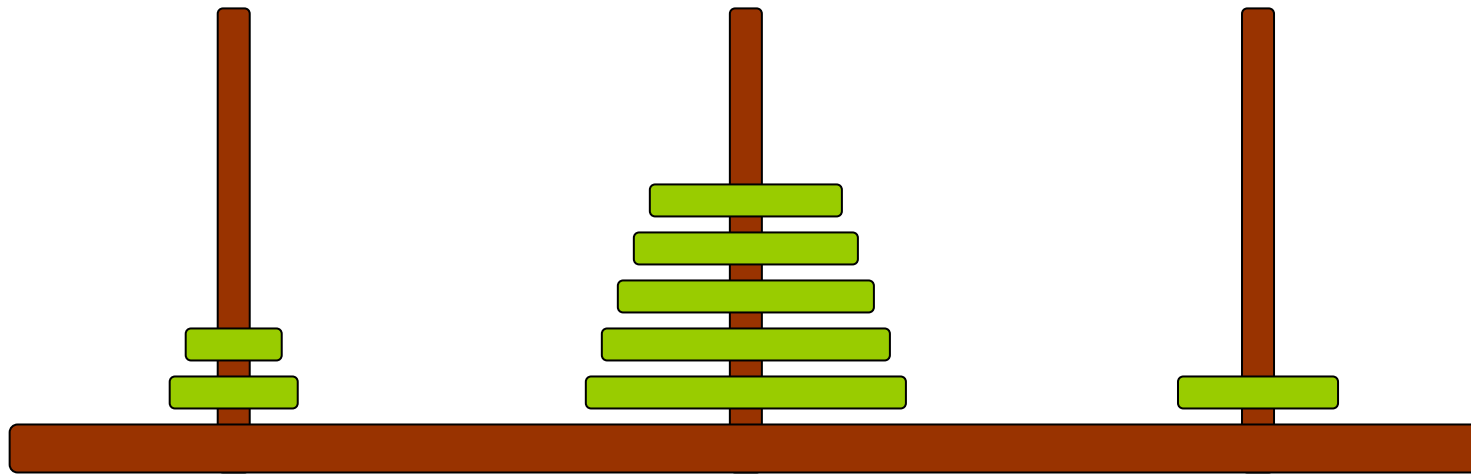


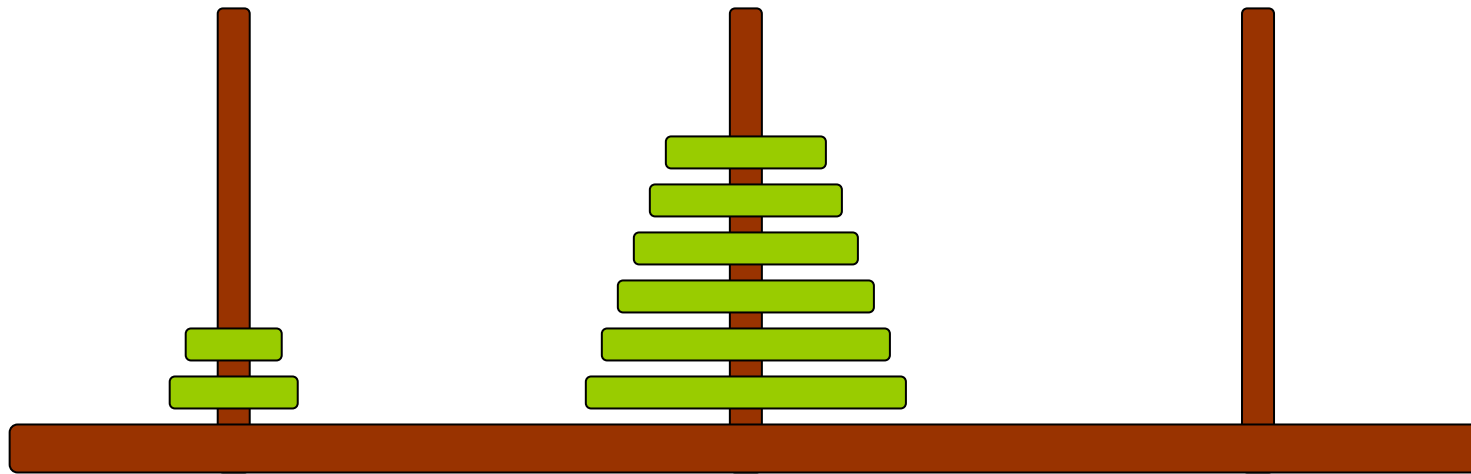


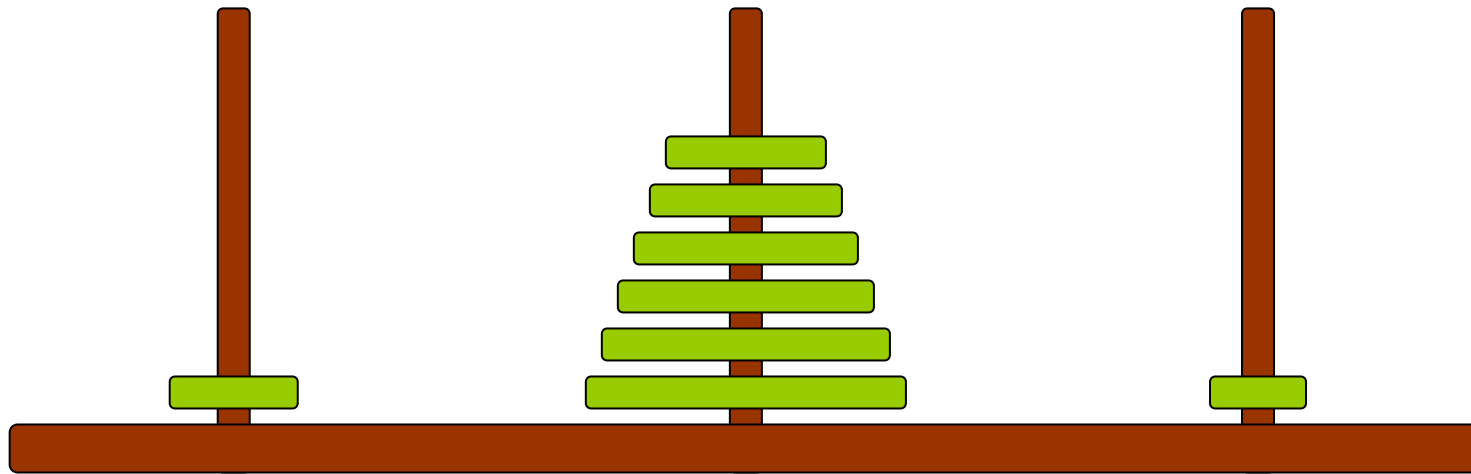


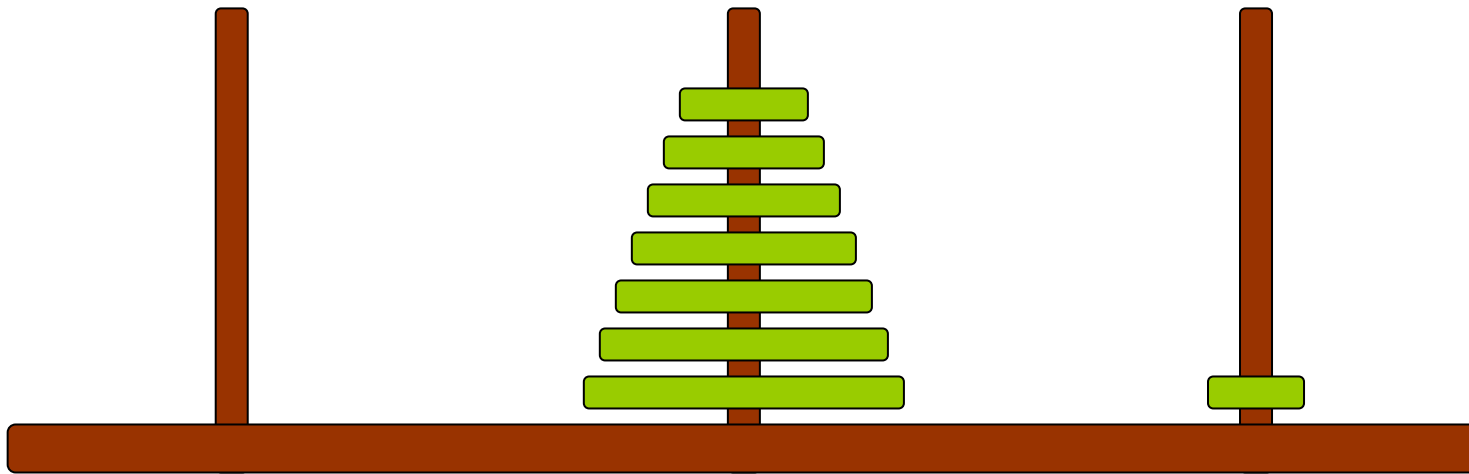


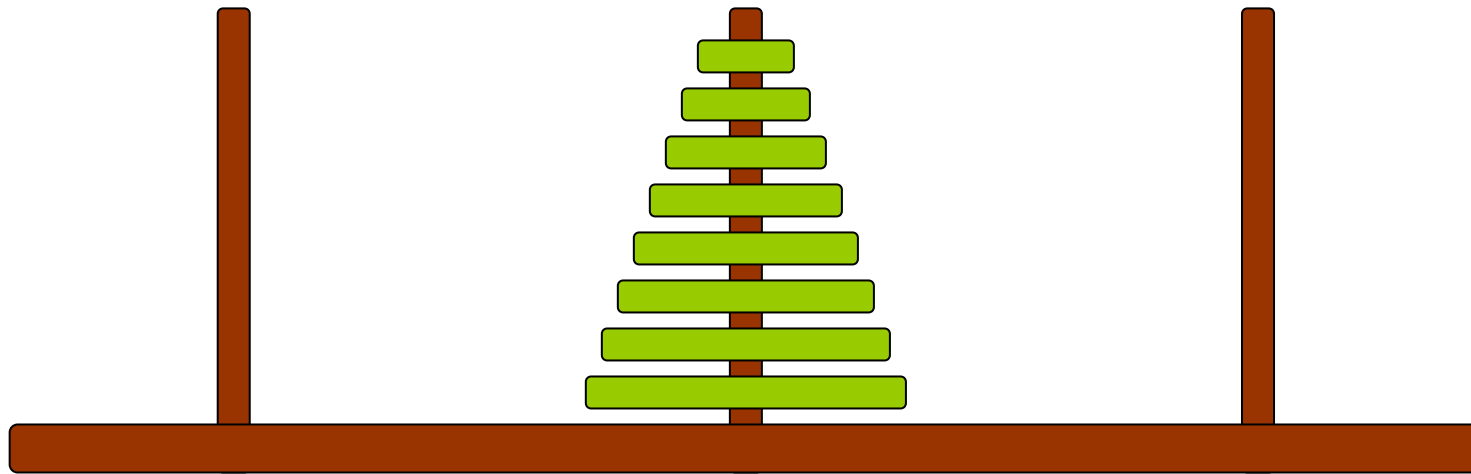














```
#include <stdio.h>

void deplace(int N,int source,int dest,int inter)
{
    if(N==1)
    {
        printf("%d -> %d\n",source,dest);
        return;
    }
    deplace(N-1,source,inter,dest);
    printf("%d -> %d\n",source,dest);
    deplace(N-1,inter,dest,source);
}

int main(void)
{
    deplace(8,0,1,2);
    return(0);
}
```