

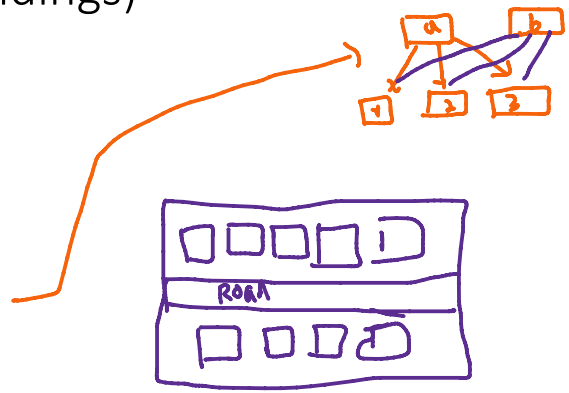
Arrange buildings(spaces and buildings)

14 April 2022 13:35

<https://nados.io/question/arrange-buildings>

Decide on the basis of last element is space or building??

We have to use permutation in this question.
While we calculate total possibilities on one side of the road.
Multiply with no. Of possibilities with other side i.e (ans*ans).



```
#include<iostream>
using namespace std;
int main()
{
    int n;
    cin>>n;

    int dp[n+1][2];

    dp[0][0]=0;
    dp[0][1]=0;
    dp[1][0]=1;
    dp[1][1]=1;

    for(int i=2;i<=n;i++)
    {
        dp[i][0]=dp[i-1][1];
        dp[i][1]=dp[i-1][0]+dp[i-1][1];
    }
    long count=dp[n][0]+dp[n][1];
    count*=count;
    cout<<count;
}
```

permutation = (m*n)

DRY RUN

Arrange Buildings

(9:40 to 9:50)

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