#include<bits/stdc++.h>

using namespace std;

int subset\_sum(int arr[],int sum,int n){

int t[n+1][sum+1];

for(int i=0;i<n+1;i++){

t[i][0] = 1;

}

for(int i=1;i<sum+1;i++){

t[0][i] = 0;

}

for(int i=1;i<=n;i++){

for(int j=1;j<=sum;j++){

if(arr[i-1]<=j){

t[i][j] = t[i][j-arr[i-1]] + t[i-1][j];

}

else{

t[i][j]=t[i-1][j];

}

}

}

return t[n][sum];

}

int main(){

int arr[] = {1, 2,3};

int n=3,sum=6;

cout<<subset\_sum(arr,sum,n)<<endl;

}