**Ways To Make Coin Change**

#include<vector>

long f(int ind,int T, int \*a,vector<vector<long>> &dp){

if(ind==0){

return (T%a[0]==0);

}

if(dp[ind][T]!=-1){

return dp[ind][T];

}

long not\_take = f(ind-1,T,a,dp);

long take =0;

if(a[ind]<=T){

take = f(ind,T-a[ind],a,dp);

}

return dp[ind][T]=take+not\_take;

}

long countWaysToMakeChange(int \*denominations, int n, int value)

{

vector<vector<long>> dp(n,vector<long>(value+1,-1));

return f(n-1,value,denominations,dp);

}