int btupdp(vector<int>& coins, int n,int amount){

int dp[amount+1];

for(int i=0;i<=amount;i++){

dp[i]=INT\_MAX;

}

dp[0]=0;

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

for(int j=0;j<n;j++){

if(coins[j]<=i){

int small = dp[i-coins[j]];

if(small!=INT\_MAX){

dp[i] = min(dp[i],small+1);

}

}

}

}

if(dp[amount] == INT\_MAX) return -1;

return dp[amount];

}