**COIN CHANGE -1 (USE A COIN NO MORE THAN A[i] TIMES AND MAKE VALUE):**

#include<bits/stdc++.h>

using namespace std;

int a[55],c[55],coin[1005],ans[55][1005];

//bool saved[55][1005];

int f(int n,int val)

{

int tmp,i,tmp2;

if(val==0)

return 1;

if(val<0)

return 0;

if(n==0&&val>0)

return 0;

if(ans[n][val]!=-1)

return ans[n][val];

tmp=0;

for(i=1;i<=c[n];i++) {

if(val-a[n]\*i>=0)

tmp=tmp+f(n-1,val-a[n]\*i)%100000007;

}

tmp+=f(n-1,val)%100000007;

ans[n][val]=tmp%100000007;

return ans[n][val];

}

int main()

{

int n,t,cs=0,k,j,cnt,i;

scanf("%d",&t);

while(t--)

{

cnt=1;

memset(a,0,sizeof(a));

memset(c,0,sizeof(c));

memset(ans,-1,sizeof(ans));

scanf("%d%d",&n,&k);

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

scanf("%d",&a[i]);

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

scanf("%d",&c[i]);

int print=f(n,k);

printf("Case %d: %d\n",++cs,print);

}

}