Problem | Result

Shubham and Tea

Send Feedback

Shubham loves drinking tea very much and is even famous among his friends for making his own special tea. But unfortunately today he is not in a mood to ma it himself as well as tired , so he goes to tea stalls to h tea.

Shubham is at his home initially, and to move to the fi shop it shall cost him one Red Bull. He goes serially fr his home to first stall, from first to second and third a so on.

There are 'S' shops in a line. Travelling from one shop the next shop cost one Red Bull of his current availabl stock of Red Bulls.He can request the stall owner to o him some Red Bulls. The stall owner admits to give hi Red Bulls but with a condition that he can't have tea fr that shop.

So, at each stall, Shubham has one choice either to ta Red Bulls or have tea from the stall. Each stall has different amount of Red Bulls and Tea Cups. So, from each stall, Shubham is allowed to take only either the entire amount of Red Bulls or the entire amount of tea cups and not none or both.

By following this rule, what is the maximum number of tea cups Shubham can have, always having number of Red Bulls greater than or equal to zero?

```
#include<bits/stdc++.h>
using namespace std;
int main() {

    // Write your code here
}
```

C++ (g++ 5.4)

```
#include<bits/stdc++.h>
#define ll long long
using namespace std;
ll solve(ll s,ll x, ll r,ll* A, ll* B, ll C[][1006] ) {
    if(s>x) {
        return 0;
    }
    if(r==0) {
        return 0;
    }
    if(C[s][r]!=-1) {
        return C[s][r];
    }
    ll t1,t2;
    if(r+B[s]>1005) {
        t2=1005;
    }
    else {
        t2=r+B[s];
    }
    C[s][r]= max(A[s]+solve(s+1,x,r-1,A,B,C), solve(s+1,x,t2-1,A,B,C));
```

Coding Ninjas

classroom.codingninjas.in/app/classroom/me/1369/content/21577/offering/210947/problem/3170

Apps | Google Developer... | IDE | GeeksforGee... | Google Code Jam | Programming Cha... | HackerRank | Tec... | Typing test, typin... | C Projects | Code... | Code Playground |...

ASK/VIEW DOUBT | SOLUTION | Code Pair | C++ (g++ 5.4)

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```
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using namespace std;
int main() {

    // Write your code here
}
```

C++ (g++ 5.4)

```
    C[s][r]= max(A[s]+solve(s+1,x,r-1,A,B,C), solve(s+1,x,t2-1,A,B,C));
    return C[s][r];
}
int main()
{
    ios::sync_with_stdio(false);
    cin.tie(0);
    int tc;
    cin>>tc;
    while(tc--) {
        ll s,r;
        cin>>s>>r;
        ll A[s+1],B[s+1];
        for(int i=1;i<=s;i++) {
            cin>>B[i];
        }
        for(int i=1;i<=s;i++) {
            cin>>A[i];
        }
        ll C[1006][1006];
        for(int i=0;i<1006;i++) {
            for(int j=0;j<1006;j++) {
```

PREVIOUS | NEXT | CUSTOM INPUT | SUBMIT

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```cpp
#include<bits/stdc++.h>
using namespace std;
int main() {

    // Write your code here
}
```

C++ (g++ 5.4)

```cpp
        ll A[s+1],B[s+1];
        for(int i=1;i<=s;i++) {
            cin>>B[i];
        }
        for(int i=1;i<=s;i++) {
            cin>>A[i];
        }
        ll C[1006][1006];
        for(int i=0;i<1006;i++) {
            for(int j=0;j<1006;j++) {
                C[i][j]=-1;
            }
        }
        if(r>1005) {
            r=1005;
        }
        ll ans=solve(1,s,r,A,B,C);
        cout<<ans<<endl;
    }
    return 0;
}

```