

## Solutions for Coding Test 6

### Journey decider

#### Python

```
a=int(input())
b=list(map(int,input().split()))
c,d=sorted(map(int,input().split()))
print(min((sum(b[c-1:d-1]),sum(b[:c-1])+sum(b[d-1:]))))
```

#### C++

```
#include <iostream>
#include <cstdlib>
using namespace std;

int main()
{
    int n,*d,s,t,sum=0,c=0;
    cin>>n;
    d=(int*)malloc(sizeof(int)*n);
    for(int i=0;i<n;i++)
    {
        cin>>d[i];sum+=d[i];
    }
    cin>>s>>t;
    if(t>s){for(int i=s-1;i<t-1;i++)
    {
        c+=d[i];
    }
    }
    else{
        for(int i=t-1;i<s-1;i++)
        {
            c+=d[i];
        }
    }
    if(c>(sum-c)){cout<<sum-c;}
    else{cout<<c;}
    return 0;
}
```

## Java

```
import java.util.Scanner;
public class Ishu
{
    public static void main(String[] args)
    {
        Scanner scan=new Scanner(System.in);
        int n,s,t,i,d1=0,d2=0,min,max;
        int[] d=new int[100];
        n=scan.nextInt();
        for(i=0;i<n;++i)
            d[i]=scan.nextInt();
        s=scan.nextInt();
        t=scan.nextInt();
        min=s<=t?s:t;
        max=s>=t?s:t;
        for(i=min-1;i<max-1;++i)
            d1+=d[i];
        for(i=max-1;i<n;++i)
            d2+=d[i];
        for(i=0;i<min-1;++i)
            d2+=d[i];
        min=d1<=d2?d1:d2;
        System.out.println(min);
    }
}
```

## 2 Burgers

### C++

```
#include <iostream>
#include <algorithm>
```

```
using namespace std;
```

```
void solve() {
    int b, p, f, h, c;
    cin >> b >> p >> f >> h >> c;
    cout << (h > c ? h * min(b / 2, p) + c * min((b - min(b / 2, p) * 2) / 2, f) : c * min(b / 2, f) + h * min((b - min(b / 2, f) * 2) / 2, p)) << endl;
}
```

```
int main() {
    int t;
    cin >> t;
    for (int i = 0; i < t; ++i)
        solve();
    return 0;
}
```

### Java

```
import java.util.Scanner;
```

```
public class minmax{
```

```
    public static void main(String args[])
    {
```

```
        Scanner s=new Scanner(System.in);
        int t=s.nextInt();
        while(t--!=0)
        {
            int b=s.nextInt();
            int p=s.nextInt();
            int f=s.nextInt();
            int h=s.nextInt();
            int c=s.nextInt();
            int max=p;
            int first=h;
            int second=c;
            int other=f;
            if(c>h){
                max=f;
                other=p;
                second=h;
                first=c;
            }
            long ans=0;
```

```
            int make=Math.min(b/2,max);
            ans=ans+make*first;
            b=b-2*make;
            make=Math.min(b/2, other);
            ans=ans+make*second;
            System.out.println(ans);
        }
    }
```

```
}
```

```
}
```

```
}
```

## Python

```
t=int(input())
```

```
for i in range(t):
```

```
    b,p,f=map(int,input().split())
```

```
    h,c=map(int,input().split())
```

```
    ans=0
```

```
    for i in range(min(p,b//2)+1):
```

```
        r=b-2*i
```

```
        ans=max(ans,i*h+min(r//2,f)*c)
```

```
    print(ans)
```