

```

1  #include<stdio.h>
2  int main(){
3      int t;
4      scanf("%d",&t);
5      while(t--){
6          int n;
7          scanf("%d",&n);
8          int a[n];
9          for(int i=0;i<n;i++){
10             scanf("%d",&a[i]);
11         }
12         int k;
13         scanf("%d",&k);
14         int flag=0;
15         for(int i=0;i<n;i++){
16             for(int j=i+1;j<n;j++){
17                 if(a[i] - a[j] == k || a[j] - a[i] ==k){
18                     flag = 1;
19                     break;
20                 }
21             }
22             if(flag)
23                 break;}
24         printf("%d\n",flag);
25     }
26
27     return 0;
28 }

```

	Input	Expected	Got	
✓	1 3 1 3 5 4	1	1	✓
✓	1 3 1 3 5 99	0	0	✓

Passed all tests! ✓

```

1  #include<stdio.h>
2  int main(){
3      int t;
4      scanf("%d",&t);
5      while(t--){
6          int n,c=0;
7          scanf("%d",&n);
8          for(int i=0;i<=n;i++){
9              if(i%2!=0){
10                 c=c+i;
11             }
12         }
13         printf("%d\n",c);
14     }
15 }

```

	Input	Expected	Got	
✓	3	1	1	✓
	1	1	1	
	2	4	4	
	3			
✓	10	1296	1296	✓
	71	2500	2500	
	100	1849	1849	
	86	729	729	
	54	400	400	
	40	25	25	
	9	1521	1521	
	77	25	25	
	9	49	49	
	13	2401	2401	
	98			

Passed all tests! ✓

```

1 #include<stdio.h>
2 int main(){
3     int s1,s2,ans;
4     scanf("%d",&s1);
5     int ta[s1];
6     for(int i=0;i<s1;i++)
7         scanf("%d",&ta[i]);
8     scanf("%d",&s2);
9     int tb[s2];
10    for(int i=0;i<s2;i++)
11        scanf("%d",&tb[i]);
12    for(int j=0;j<s2;j++){
13        ans=0;
14        for(int i=0;i<s1;i++){
15            if(tb[j] >=ta[i])
16                ans++;
17        }
18        printf("%d\n",ans);
19    }
20 }

```

	Input	Expected	Got	
✓	4 1 4 2 4 2 3 5	2 4	2 4	✓
✓	5 2 10 5 4 8 4 3 1	1 0 3 4	1 0 3 4	✓

2 x 9 = 18

2 x 10 = 20

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     for(int i=1;i<=10;i++){
6         printf("%d x %d = %d\n",n,i,n*i);
7     }
8 }
```

	Input	Expected	Got	
✓	2	2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20	2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20	✓

Passed all tests! ✓

### Sample Input 2

3

3

### Sample Output 2

5

### Explanation 2

$2 + 3 = 5$ , is the best case for maximum nutrients.

**Answer:** (penalty regime: 0 %)

```
1  #include<stdio.h>
2  int main(){
3      long long int n,t,i,nut = 0;
4      scanf("%lld %lld",&n,&t);
5      for(i=1;i<=n;i++){
6          nut = nut+i;
7          if(nut==t){
8              nut =nut-1;
9          }
10     }
11     printf("%lld",nut%1000000000007);
12 }
```

Answer: (penalty regime: 0 %)

```
1 #include<stdio.h>
2 long f(int n,int p){
3     int factors[1000];
4     int count = 0;
5     for(int i=1;i<=n;i++){
6         if(n%i==0){
7             factors[count++]=i;
8         }
9     }
10    if(p>count){
11        return 0;
12    }
13    return factors[p-1];
14 }
15
16 int main(){
17     int n,p;
18     scanf("%d %d",&n,&p);
19     printf("%ld\n",f(n,p));
20     return 0;
21 }
```

	Input	Expected	Got	
✓	10 3	5	5	✓
✓	10 5	0	0	✓
✓	1 1	1	1	✓

Passed all tests! ✓