Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int checkPair(int arr[],int n
{
    int i=0,j=1;
    while(i<n && j<n)
    {
        int diff = arr[j] - a
        if(diff == k)
        {
            return 1;
        }
        else if(diff < k)
        {
            j++;
        }
        else
        {
            i++;
        }
    }
    return 0;
}
int main()
{
    int T,N,k;
    scanf("%d",&T);
    for(int t=0; t<T; t++)
    {
        scanf("%d",&N);
        int arr[N];
        for(int i=0; i<N; i++
        {
            scanf("%d",&arr[i
        }
        scanf("%d",&k);
        int result = checkPai
        printf("%d\n",result)
    }
    return 0;
}
```

```
38      }
39      return 0;
40  }
```

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

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

Flag question

Sam loves chocolates and starts buying them on the 1st day of the year. Each day of the year, x, is numbered from 1 to Y. On days when x is odd, Sam will buy x chocolates; on days when x is even, Sam will not purchase any chocolates.

Complete the code in the editor so that for

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int calculate(int N)
{
    int total_chocolates = 0;
    for(int i=1; i<=N; i++)
    {
        if(i%2 == 1)
        {
            total_chocolates
        }
    }
    return total_chocolates;
}
int main()
{
    int T,N;
    scanf("%d",&T);
    for(int i=0; i<T; i++)
    {
        scanf("%d",&N);
        int total_chocolates
        printf("%d\n",total_c
    }
    return 0;
}
```

	Input	Expected	Got	
✓	3 1 2 3	1 1 4	1 1 4	✓
✓	10 71 100 86	1296 2500 1849 729	1296 2500 1849 729	✓

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n,m;
    scanf("%d",&n);
    int nums[n];
    for(int i=0; i<n; i++)
    {
        scanf("%d",&nums[i]);
    }
    scanf("%d",&m);
    int maxes[m];
    for(int i=0; i<m; i++)
    {
        scanf("%d",&maxes[i])
    }
    int counts[m];
    for(int i=0; i<m; i++)
    {
        counts[i]=0;
    }
    for(int i=0; i<n; i++)
    {
        for(int j=0; j<m; j++
        {
            if(nums[i] <= max
            {
                counts[j]++;
            }
        }
    }
    for(int i=0; i<m; i++)
    {
        printf("%d\n",counts[
    }
    return 0;
}
```

```
32      for(int i=0; i<m; i++)
33      {
34          printf("%d\n",counts[
35      }
36      return 0;
37  }
```

	Input	Expected	Got	
✓	4 1 4 2 4 2 3 5	2 4	2 4	✓
✓	5 2 10 5 4 8 4 3 1 7 8	1 0 3 4	1 0 3 4	✓

Passed all tests! ✓

Finish review

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
void printMaxInWindow(int arr
{
    for(int i =0; i<=n-k; i++
    {
        int max = arr[i];
        for(int j=i; j<i+k; j
        {
            if(arr[j] > max)
            {
                max = arr[j];
            }
        }
        printf("%d ",max);
    }
    printf("\n");
}
int main()
{
    int n,k;
    scanf("%d",&n);
    int arr[n];
    for(int i=0; i<n; i++)
    {
        scanf("%d",&arr[i]);
    }
    scanf("%d",&k);
    printMaxInWindow(arr,n,k)
    return 0;
}
```

	Input	Expected
✓	8	5 5 5 8 8 9

```
13          }
14          printf("%d ",max);
15      }
16      printf("\n");
17  }
18  int main()
19  {
20      int n,k;
21      scanf("%d",&n);
22      int arr[n];
23      for(int i=0; i<n; i++)
24      {
25          scanf("%d",&arr[i]);
26      }
27      scanf("%d",&k);
28      printMaxInWindow(arr,n,k)
29      return 0;
30  }
```

	Input	Expected
✓	8 1 3 5 2 1 8 6 9 3	5 5 5 8 8 9
✓	10 3 7 5 1 2 9 8 5 3 2 3	7 7 5 9 9 9

Passed all tests! ✓

Question **2**

Correct

Marked out of 1.00

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int calculateParts(int arr[],
{
    int total_count = 0;
    for(int i =0; i<n; i++)
    {
        int count = (arr[i] +
        total_count += count;
    }
    return total_count;
}
int main()
{
    int n,threshold;
    scanf("%d",&n);
    int arr[n];
    for(int i=0; i<n; i++)
    {
        scanf("%d",&arr[i]);
    }
    scanf("%d",&threshold);
    int result = calculatePar
    printf("%d\n",result);
    return 0;
}
```

	Input	Expected
✓	6 5 8 10 13 6 2 3	17

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n1,n2;
    scanf("%d",&n1);
    int arr1[n1];
    for(int i=0; i<n1; i++)
    {
        scanf("%d",&arr1[i]);
    }
    scanf("%d",&n2);
    int arr2[n2];
    for(int i =0; i<n2; i++)
    {
        scanf("%d",&arr2[i]);
    }
    int merged[n1+n2];
    int i=0, j=0, k=0;
    while(i<n1 && j<n2)
    {
        if(arr1[i] < arr2[j])
        {
            merged[k++] = arr
        }
        else if(arr1[i] > arr
        {
            merged[k++] = arr
        }
        else
        {
            merged[k++] = arr
            j++;
        }
    }
    while(i<n1)
```

```
22          {
23              merged[k++] = arr
24          }
25          else if(arr1[i] > arr
26          {
27              merged[k++] = arr
28          }
29          else
30          {
31              merged[k++] = arr
32              j++;
33          }
34      }
35      while(i<n1)
36      {
37          merged[k++] = arr1[i+
38      }
39      while(j<n2)
40      {
41          merged[k++] = arr2[j+
42      }
43      for(int i=0; i<k; i++)
44      {
45          printf("%d ",merged[i
46      }
47      return 0;
48  }
```

	Input	Expected	Got
✓	5 1 2 3 6 9 4 2 4 5 10	1 2 3 4 5 6 9 10	1 2

Passed all tests! ✓

2 x 10 = 20

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int i,n;
    scanf("%d",&n);
    for(i=1; i<=10; i++)
    {
        printf("%d x %d = %d\
    }
    return 0;
}
```

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

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    long long n,k,sum;
    scanf("%lld %lld",&n,&k);
    sum =0;
    for(long long i=1; i<=n;
    {
        sum+=i;
        if(sum == k)
        {
            sum -= 1;
        }
    }
    printf("%lld",sum%1000000
    return 0;
}
```

	Input	Expected	Got	
✓	2 2	3	3	✓
✓	2 1	2	2	✓
✓	3 3	5	5	✓

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
#include<stdlib.h>
long int pthFactor(long int n
{
    int count = 0;
    long int *factors = mallo
    for(long int i=1; i*i<=n;
    {
        if(n%i==0)
        {
            factors[count++]
            if(i != n/i)
            {
                factors[count
            }
        }
    }
    if(p > count)
    {
        free(factors);
        return 0;
    }
    long int result = factors
    free(factors);
    return result;
}
int main()
{
    long int n;
    int p;
    scanf("%ld %d",&n,&p);
    long int result = pthFact
    printf("%ld\n",result);
    return 0;
}
```

```
14                  factors[count
15              }
16          }
17      }
18      if(p > count)
19      {
20          free(factors);
21          return 0;
22      }
23      long int result = factors
24      free(factors);
25      return result;
26  }
27  int main()
28  {
29      long int n;
30      int p;
31      scanf("%ld %d",&n,&p);
32      long int result = pthFact
33      printf("%ld\n",result);
34      return 0;
35  }
```

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

Some hidden test cases failed, too.
Your code must pass all tests to earn any marks. Try again.

1 3 4

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int n,i,num,sum;
    scanf("%d",&n);
    sum = (n*(n+1)) / 2;
    for(i=0; i<n-1; i++)
    {
        scanf("%d",&num);
        sum -= num;
    }
    printf("%d\n",sum);
    return 0;
}
```

	Input	Expected	Got	
✓	3 1 2	3	3	✓
✓	4 1 3 4	2	2	✓

Passed all tests! ✓

6 5 5 6 6 6	6

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int n,i,num,count = 0,mis
    scanf("%d",&n);
    for(i=0; i<n-1; i++)
    {
        scanf("%d ",&num);
        count ^= num;
    }
    missing_num = count;
    printf("%d\n",missing_num
    return 0;
}
```

	Input	Expected	Got	
✓	8 5 7 2 7 5 2 5	5	5	✓
✓	6 5 5 6 6 6	6	6	✓

Passed all tests! ✓

12	Yes
13	No

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main()
{
    int num,i,sum = 0;
    scanf("%d",&num);
    for(i=1; i<num; i++)
    {
        if(num % i == 0)
        {
            sum += i;
        }
    }
    if(sum > num)
    {
        printf("Yes");
    }
    else
    {
        printf("No");
    }
    return 0;
}
```

	Input	Expected	Got	
✓	12	Yes	Yes	✓
✓	13	No	No	✓

Passed all tests! ✓