



7. A dog takes 4 leaps for every 5 leaps of a hare but 3 leaps ...

+ 4.0

8. Johnson works twice more than Ben to complete a work and tog...

+ 4.0

9. The population of a town is 1,76,400. If it increases at the...

+ 4.0

10. What is the compound interest on USD 7500 at 4% per annum fo...

+ 2.0

2 Programming Questions

11. K Prime Array

+ 100.0

12. Longest Increasing Subsequence

+ 100.0

Question 11

Max. Marks 100.00 ?

K Prime Array

Given an array A of N integers and an integer K . An array is called **K-Prime** if it contains at least K prime numbers. Now, you need to convert the array A into a **K-Prime** array by performing some operations. In one operation, you can choose an index of the array A and add number 1 to it. This will increase the value of the chosen element by 1. You need to print the minimum operations required to make the array A **K-Prime**. If the array is already **K-Prime** print 0.

Input

The first line contains two integers N and K as input.
The next line of input contains N space-separated integers.

Output

In the output print the minimum operations required to make the array A **K-Prime**.

Constraints

$$1 \leq K \leq N \leq 10^5$$
$$1 \leq A[i] \leq 10^3$$

Sample Input 🔗

```
4 3
2 8 1 14
```

Sample Output 🔗

4

Explanation

In the given sample, if you increment value 1 to 2 and 8 to 11 then in 4 operations you can make the array 3-Prime.

Note: Your code should be able to convert the sample input into the sample output. However, this is not enough to pass the challenge, because the code will be run on multiple test cases. Therefore, your code must solve this problem statement.

Time Limit: 1.0 sec(s) for each input file

Memory Limit: 256 MB

Source Limit: 1024 KB

Marking Scheme: Marks are awarded if any testcase passes

Allowed Languages: Java, Java 8

New Submission

All Submissions

Java 8 (oracle 1.8.0_131) ▾

Save



```
1 import java.io.BufferedReader;
2 import java.io.InputStreamReader;
3
4 class TestClass {
5     public static void main(String args[] ) throws Exception {
6
7         int array[],count=0;
8         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
9         int N = br.readLine();
10        array=new int[N];
11        int K = br.readLine();
12        for(int i=0;i<N;i++){
13            array[i]=br.readLine();
14            if(array[i])
15            }
16
17
18
19        System.out.println();
20
21    }
22 }
23
```

14:24

Press Ctrl/Command+Spacebar for autocomplete suggestions (accuracy dependent on connection stability).

Provide custom input

COMPILE & TEST

SUBMIT

Next Question >



