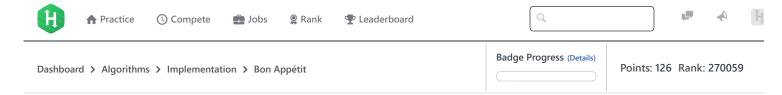
15/11/2017 HackerRank







Problem	Submissions	Leaderboard	Discussions	Editorial 🔒
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Anna and Brian order n items at a restaurant, but Anna declines to eat any of the k^{th} item (where $0 \le k < n$) due to an allergy. When the check comes, they decide to split the cost of all the items they shared; however, Brian may have forgotten that they didn't split the k^{th} item and accidentally charged Anna for it.

You are given n, k, the cost of each of the n items, and the total amount of money that Brian charged Anna for her portion of the bill. If the bill is fairly split, print Bon Appetit; otherwise, print the amount of money that Brian must refund to Anna.

Input Format

The first line contains two space-separated integers denoting the respective values of n (the number of items ordered) and k (the 0-based index of the item that Anna did not eat).

The second line contains n space-separated integers where each integer i denotes the cost, c[i], of item i (where $0 \leq i < n$).

The third line contains an integer, $b_{charged}$, denoting the amount of money that Brian charged Anna for her share of the bill.

Constraints

- $2 \le n \le 10^5$
- $0 \le k < n$
- $0 \le c[i] \le 10^4$
- $0 \le b \le \sum c[i]$

Output Format

If Brian did not overcharge Anna, print Bon Appetit on a new line; otherwise, print the difference (i.e., $b_{charged} - b_{actual}$) that Brian must refund to Anna (it is guaranteed that this will always be an integer).

Sample Input 0

```
4 1
3 10 2 9
```

Sample Output 0

5

Explanation 0

Anna didn't eat item c[1] = 10, but she shared the rest of the items with Brian. The total cost of the shared items is 3 + 2 + 9 = 14 and, split in half, the cost per person is $b_{actual} = 7$. Brian charged her $b_{charged} = 12$ for her portion of the bill, which is more than the 7 dollars worth of food that she actually shared with him. Thus, we print the amount Anna was overcharged, $b_{charged} - b_{actual} = 12 - 7 = 5$, on a new line.

Sample Input 1

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```
4 1
3 10 2 9
```

Sample Output 1

Bon Appetit

Explanation 1

Anna didn't eat item c[1] = 10, but she shared the rest of the items with Brian. The total cost of the shared items is 3+2+9=14 and, split in half, the cost per person is $b_{actual} = 7$. Because this matches the amount, $b_{charged} = 7$, that Brian charged Anna for her portion of the bill, we print Bon Appetit on a new line.

> f ⊌ in Submissions:52689 Max Score:10 Difficulty: Easy Rate This Challenge: More

Run Code

```
Current Buffer (saved locally, editable) & 40
                                                                                           Java 7
1 ▼ import java.io.*;
2 import java.util.*;
3
    import java.text.*;
    import java.math.*;
    import java.util.regex.*;
6
7 ▼ public class Solution {
8
        static int bonAppetit(int n, int k, int b, int[] ar) {
9 🔻
10
            // Complete this function
11
12
13 🔻
        public static void main(String[] args) {
14
            Scanner in = new Scanner(System.in);
15
            int n = in.nextInt();
            int k = in.nextInt();
16
            int[] ar = new int[n];
17 ▼
18 ▼
            for(int ar_i = 0; ar_i < n; ar_i++){
19 ▼
                 ar[ar_i] = in.nextInt();
20
21
            int b = in.nextInt();
22
            int result = bonAppetit(n, k, b, ar);
23
            System.out.println(result);
24
25
    }
26
                                                                                                                     Line: 1 Col: 1
                                                                                                                     Submit Code
```

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1 Upload Code as File

Test against custom input