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Bon Appétit

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Problem

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Discussions

Anna and Brian are sharing a meal at a restaurant and they agree to split the bill equally. Brian wants to order something that Anna is allergic to though, and they agree that Anna won't pay for that item. Brian gets the check and calculates Anna's portion. You must determine if his calculation is correct.

For example, assume the bill has the following prices: $bill = [2, 4, 6]$. Anna declines to eat item $k = bill[2]$ which costs **6**. If Brian calculates the bill correctly, Anna will pay $(2 + 4)/2 = 3$. If he includes the cost of $bill[2]$, he will calculate $(2 + 4 + 6)/2 = 6$. In the second case, he should refund **3** to Anna.

Function Description

Complete the `bonAppetit` function in the editor below. It should print `Bon Appetit` if the bill is fairly split. Otherwise, it should print the integer amount of money that Brian owes Anna.

`bonAppetit` has the following parameter(s):

- $bill$: an array of integers representing the cost of each item ordered
- k : an integer representing the zero-based index of the item Anna doesn't eat

- b : the amount of money that Anna contributed to the bill

Input Format

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

The second line contains n space-separated integers $bill[i]$ where $0 \leq i < n$.

The third line contains an integer, b , the amount of money that Brian charged Anna for her share of the bill.

Constraints

- $2 \leq n \leq 10^5$
- $0 \leq k < n$
- $0 \leq bill[i] \leq 10^4$
- $0 \leq b \leq \sum_{i=0}^{n-1} bill[i]$
- The amount of money due Anna will always be an integer

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. This will always be an integer.

Sample Input 0

```
4 1
3 10 2 9
12
```

Sample Output 0

5

Explanation 0

Anna didn't eat item $bill[1] = 10$, 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. We print the amount Anna was overcharged, $b_{charged} - b_{actual} = 12 - 7 = 5$, on a new line.

Sample Input 1

```
4 1
3 10 2 9
7
```

Sample Output 1

Bon Appetit

Explanation 1

Anna didn't eat item $bill[1] = 10$, 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 $b_{actual} = b_{charged} = 7$, we print Bon Appetit on a new line.


  

Submissions: 0

Max Score: 10

Difficulty: Easy

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Java 8



```
1 import java.io.*;
2 import java.math.*;
3 import java.security.*;
4 import java.text.*;
5 import java.util.*;
6 import java.util.concurrent.*;
7 import java.util.function.*;
8 import java.util.regex.*;
9 import java.util.stream.*;
10 import static java.util.stream.Collectors.joining;
11 import static java.util.stream.Collectors.toList;
12
13 public class Solution {
14
15     static void bonAppetit(List<Integer> bill, int k, int b)
16     {
17         int sum=0;
18         for(int i=0;i<bill.size();i++)
19         {
20             sum+=bill.get(i);
21         }
22         sum-=bill.get(k);
23         sum=sum/2;
24
25         if(sum==b)
26         {
27             System.out.println("Bon Appetit");
28         }
29         else
30         {
```

```
31         System.out.println(bill.get(k)/2);
32     }
33
34 }
35
36 public static void main(String[] args) throws IOException {
37     BufferedReader bufferedReader = new BufferedReader(new InputStreamReader(System.in));
38
39     String[] nk = bufferedReader.readLine().replaceAll("\\s+$", "").split(" ");
40
41     int n = Integer.parseInt(nk[0]);
42
43     int k = Integer.parseInt(nk[1]);
44
45     List<Integer> bill = Stream.of(bufferedReader.readLine().replaceAll("\\s+$", "").split(" "))
46         .map(Integer::parseInt)
47         .collect(toList());
48
49     int b = Integer.parseInt(bufferedReader.readLine().trim());
50
51     bonAppetit(bill, k, b);
52
53     bufferedReader.close();
54 }
55 }
56
```

Line: 14 Col: 1

 Upload Code as File ☐ Test against custom input

Run Code

Submit Code

Testcase 0 ✓

Testcase 1 ✓

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
4 1
3 10 2 9
12
```

Your Output (stdout)

```
5
```

Expected Output

```
5
```

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