

ProblemResult

Special game

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Aahad and Harshit are playing a special game known as "Game of three". In this game, there are an array of numbers. Both Aahad and Harshit select a number(one by one) from the array and add the element's value in their score. The selected number is removed from the array.

Initially, scores of both Aahad and Harshit are zero and Aahad selects the first number. Harshit selects the second number and so on till the array becomes empty.

Final score of Aahad is taken as 'A' and for Harshit it is 'B'.

If absolute value of (A-B) is divisible by 3, then Aahad will win, otherwise Harshit will win. (Assume both players play to win and make no mistakes).

Input Format

The First line contains size array: n
The second line contains 'n' space separated integers denoting the value of ith element (Ai) present in the array

Output Format

```
1 // BEGINNING WITH THE NAME OF ALMIGHTY GOD ALLAH
2 // AUTHOR:: MOHAMMAD FAISAL
3 #include<bits/stdc++.h>
4 using namespace std;
5 int main() {
6
7     ios_base::sync_with_stdio(false);
8     cin.tie(nullptr);
9     cout.tie(nullptr);
10
11     int n;
12     cin >> n;
13     int one=0,two=0;
14
15     for(int i=1;i<=n;i++)
16     {
17         int x;
18         cin >> x;
19         if(x%3==1) one++;
20         if(x%3==2) two++;
21     }
22     if(one%2==0 && two%2==0)
23         cout<<"Aahad";
24     else
25         cout<<"Harshit";
26     // Write your code here
27     return 0;
28 }
```

integers denoting the value of ith element (Ai).

Problem Result

Output Format

If Aahad wins print "Aahad"(without quotes)
otherwise print "Harshit"(without quotes)

Constraints

$1 \leq n \leq 10^5$
 $1 \leq A_i \leq 10^5$
Time Limit: 1 second

Sample Test Cases:

Sample Input 1:

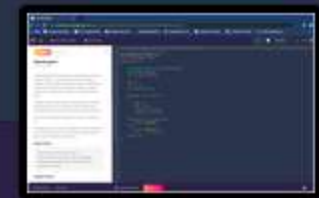
3
7 6 18

Sample Output 1:

Harshit

Sample Input 2:

```
1 // BEGINNING WITH THE NAME OF ALMIGHTY GOD ALLAH
2 // AUTHOR:: MOHAMMAD FAISAL
3 #include<bits/stdc++.h>
4 using namespace std;
5 int main() {
6
7     ios_base::sync_with_stdio(false);
8     cin.tie(nullptr);
9     cout.tie(nullptr);
10
11     int n;
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13     int one=0,two=0;
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15     for(int i=1;i<=n;i++)
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17         int x;
18         cin >> x;
19         if(x%3==1) one++;
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21     }
22     if(one%2==0 && two%2==0)
23         cout<<"Aahad";
24     else
25         cout<<"Harshit";
26     // Write your code here
27     return 0;
28 }
```



ProblemResult

7 6 18

Sample Output 1:

Harshit

Sample Input 2:

1
3

Sample Output 2:

Aahad

Explanation

In the first case, possible scores are {13 , 18} , {24 , 7} , {25 , 6} and none of absolute difference is divisible by 3 so, Harshit will win.

In the second case, possible score is {3 , 0} so Aahad will win

```
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```

