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The Avengers 1

Problem	Submissions	Leaderboard	Discussions

The evil Dark-Monkey plans to atack and destroy the city of New York and build his laboratory over there. Little does he know that there are The Avengers who are ready to spoil his plans.

One of the special abilities about Dark-Monkey is that he can resurruct for 'n' times before he can be killed off. Each time he attacks, he has a definite amount of health. Your task is to select and deply three of the avengers eac time Dark-Monkey attacks.

Each hero has a set destruction power. The selected three super heroes must have a combined destruction power equal to that of or greater than Dark-Monkey's health. Of various possible groups of 3 heroes, the one with least combined destruction power able to defeat Dark-Monkey should be selected.

The destruction power of the various heroes are : Iron Man : 17 Thor : 25 Captain America : 10 Hulk : 22 Scarlet Witch : 20 Black Widow : 6 Hawkeye : 6 Doctor Strange : 21 War Machine : 12 Falcon : 7 Black Panther : 14 Spider Man : 15

Save New York!

Input Format

The fist line is a positive integer n, which denotes the number of times Dark-Monkey can attack New York The next n lines denote the health h of Dark-Monkey each time he comes to attack.

Constraints

$1<=n<=10^9$ $1<=h<=100000$

Output Format

For every attack by the Dark-Monkeyb where he can be defeated, output consists of three lines containing the names of the three selected super heroes. If none of the group of heroes is able to defeat Dark-Monkey, print "AVENGERS ARE DEFEATED" (note that if a group of three heroes are able to take down the villian, their names should be printed in an order according to the given list)

Sample Input 0

```
5
55
45
1000
1
23
```

Sample Output 0

```
Hero 1 :  Thor
Hero 2 :  Captain America
Hero 3 :  Scarlet Witch
Hero 1 :  Iron Man
Hero 2 :  Hulk
Hero 3 :  Black Widow
AVENGERS ARE DEFEATED
Hero 1 :  Black Widow
Hero 2 :  Hawkeye
Hero 3 :  Falcon
```

```
Hero 1 :  Captain America
Hero 2 :  Black Widow
Hero 3 :  Falcon
```

Explanation 0

The first time Dark-Monkey attacks, the group of Thor, Captain America and Scarlet Witch can take him down. The second time Dark-Monkey attacks, the group of Iron Man, Hulk and Black Widow can take him down. The third time Dark-Monkey attacks, Avengers are defeated. The fourth time Dark-Monkey attacks, the group of Black Widow, Hawkeye and Falcon can take him down. The fifth time Dark-Monkey attacks, the group of Captain America Black Widow and Falcon can take him down.

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Contest ends in 19 hours

Submissions: 6
Max Score: 50
Difficulty: Easy

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```
 1 ▾#include <stdio.h>
 2  #include <string.h>
 3  #include <math.h>
 4  #include <stdlib.h>
 5
 6 ▾int main() {
 7
```

```
 8 ▼        /* Enter your code here. Read input from STDIN. Print output to STDOUT */
 9          return 0;
10   }
11
```

Line: 1 Col: 1

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