

A. Greg's Workout

time limit per test

2 seconds

memory limit per test

256 megabytes

input

standard input

output

standard output

Greg is a beginner bodybuilder. Today the gym coach gave him the training plan. All it had was n integers a_1, a_2, \dots, a_n . These numbers mean that Greg needs to do exactly a_i exercises today. Besides, Greg should repeat the i -th in order exercise a_i times.

Greg now only does three types of exercises: "chest" exercises, "biceps" exercises and "back" exercises. Besides, his training is cyclic, that is, the first exercise he does is a "chest" one, the second one is "biceps", the third one is "back", the fourth one is "chest", the fifth one is "biceps", and so on to the n -th exercise.

Now Greg wonders, which muscle will get the most exercise during his training. We know that the exercise Greg repeats the maximum number of times, trains the corresponding muscle the most. Help Greg, determine which muscle will get the most training.

Input

The first line contains integer n ($1 \leq n \leq 20$). The second line contains n integers a_1, a_2, \dots, a_n ($1 \leq a_i \leq 25$) — the number of times Greg repeats the exercises.

Output

Print word "chest" (without the quotes), if the chest gets the most exercise, "biceps" (without the quotes), if the biceps gets the most exercise and print "back" (without the quotes) if the back gets the most exercise.

It is guaranteed that the input is such that the answer to the problem is **unambiguous**.

Examples

input

Copy

2

2 8

output

biceps

input

Copy

3

5 1 10

output

back

input

Copy

7

3 3 2 7 9 6 8

output

chest

Note

In the first sample Greg does 2 chest, 8 biceps and zero back exercises, so the biceps gets the most exercises.

In the second sample Greg does 5 chest, 1 biceps and 10 back exercises, so the back gets the most exercises.

In the third sample Greg does 18 chest, 12 biceps and 8 back exercises, so the chest gets the most exercise.