

# Problem GPA: Grade Point Average

We have been told that 90% of American students believe that they are above average. Since German students are a little more humble than their American colleagues, only 80% of the German students believe that they are above average.

Your task now is to determine if a given class is composed of German or of American students, assuming that the 80%/90% estimates are correct.

The input file contains a number of test cases, each in a line by itself. The first entry in each line is an integer number  $n < 100$ , the number of students in a class. The following  $n$  floating-point numbers represent the students' results in the final exam. Grades are given according to the German scale, i.e. the best grade is 1.0 while 5.0 is the worst grade possible. All numbers are separated by single spaces.

## Input

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Input is terminated by a blank line or EOF.

## Output

For each line of input, print either

- "American" if more than 85% of the students in the class are better than average,
- "German" if less than 85% of the students are better than average, and
- "Australian" if exactly 85% of the students are better than average.

### Sample Input 1

```
4 1.0 2.0 3.0 4.0
8 1.0 1.0 1.0 1.3 1.0 1.0 1.0 4.0
20 1.0 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.7 1.0 1.3 1.0 1.7 1.0 1.3 1.7 1.0 4.0 3.7 5.0
```

### Sample Output 1

```
German
American
Australian
```