

1683 - DPA

Description

In the mathematical works usually with dividers numbers for many applications. In our case, we want to make a classification system with the divisors of a number N .

Our system will have 3 possible classifications:

- Deficient.
- Perfect.
- Abundant.

We say that a number is Deficient if the sum of its divisors, excluding N , is less than N . It is Perfect if the sum of these divisors is equal to N . Abundant, in the event that the sum of the divisors is greater than N .

Input specification

Line 1: A number C which represents the number of cases tested.
Then C lines, where each line will show a number N ($1 \leq N \leq 500$).

Output specification

C lines: In each line, a string of characters ("Deficient", "Perfect" or "Abundant"), indicating the type of classification according to the above system.

Sample input

```
3
6
12
3
```

Sample output

```
Perfect
Abundant
```

Deficient

Hint(s)

Source	Ruben Alcolea Núñez
Added by	ymondelo20
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Time limit (ms)	1000
Test limit (ms)	1000
Memory limit (kb)	150000
Output limit (mb)	64
Size limit (bytes)	30000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text