C++ Class Template Specialization

HackerRank

You are given a *main* function which reads the enumeration values for two different types as input, then prints out the corresponding enumeration names. Write a class template that can provide the names of the enumeration values for both types. If the enumeration value is not valid, then print `unknown`.

Input Format

The first line contains t, the number of test cases.
Each of the t subsequent lines contains two space-separated integers. The first integer is a color value, c, and the second integer is a fruit value, f.

Constraints

- $1 \leq t \leq 100$
- $-2 \times 10^9 \leq c \leq 2 \times 10^9$
- $-2 \times 10^9 \leq f \leq 2 \times 10^9$

Output Format

The locked stub code in your editor prints t lines containing the *color* name and the *fruit* name corresponding to the input enumeration index.

Sample Input

```
2
1 0
3 3
```

Sample Output

```
green apple
unknown unknown
```

Explanation

Since $t = 2$, there are two lines of output.

1. The two input index values, 1 and 0, correspond to *green* in the color enumeration and *apple* in the fruit enumeration. Thus, we print `green apple`.
2. The two input values, 3 and 3, are outside of the range of our enums. Thus, we print `unknown unknown`.