

# Safe's reliability

A three-digit number is used as the access code for the safe, which does not contain repeating numbers. To increase resistance to hacking, help automate validation of the proposed access code. The program should output "OK" if the suggested code is correct. If the code does not fit, then depending on the number of digits matched in the number, one of two messages: "There are two identical digits in the number" or "All the digits in the number are the same".

## Input format

A three-digit integer.

## Output format

One line is the result of checking the code.

## Example 1 Example 2

Input

123

Input

665

Output

OK

Output

The number contains two identical numbers

```
int codeNum;
int first;
int second;
int third;

std::cin >> codeNum; // 123

// If 3 digit num has 3 different digits, OK
// If 3 digit num has 2 digits the same, "There are two identical digits in the number"
// If 3 digit num has 3 digits the same, "All the digits in the number are the same"

first = codeNum / 100;
second = (codeNum / 10) % 10;
third = codeNum % 10;

if (first != second && second != third) {
    std::cout << "OK" << std::endl;
}
else if (first == second && second == third) {
    std::cout << "All the digits in the number are the same" << std::endl;
}
else if (first == second || first == third || second == third) {
    std::cout << "There are two identical digits in the number" << std::endl;
}
```