



剩余时间: 02:33:58

提前结束考试

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7-1 Forever (20 分)

"Forever number" is a positive integer  $A$  with  $K$  digits, satisfying the following constrains:

- the sum of all the digits of  $A$  is  $m$ ;
- the sum of all the digits of  $A + 1$  is  $n$ ; and
- the greatest common divisor of  $m$  and  $n$  is a prime number which is greater than 2.

Now you are supposed to find these forever numbers.

Input Specification:

Each input file contains one test case. For each test case, the first line contains a positive integer  $N$  ( $\leq 5$ ). Then  $N$  lines follow, each gives a pair of  $K$  ( $3 < K < 10$ ) and  $m$  ( $1 < m < 90$ ), of which the meanings are given in the problem description.

Output Specification:

For each pair of  $K$  and  $m$ , first print in a line `Case X`, where `X` is the case index (starts from 1). Then print  $n$  and  $A$  in the following line. The numbers must be separated by a space. If the solution is not unique, output in the ascending order of  $n$ . If still not unique, output in the ascending order of  $A$ . If there is no solution, output `No Solution`.

Sample Input:

```
2
6 45
7 80
```

Sample Output:

```
Case 1
10 189999
10 279999
10 369999
10 459999
10 549999
10 639999
10 729999
10 819999
10 909999
Case 2
No Solution
```

编译器 (33)

C++ (g++)

[帮助](#)

```
1  #include <iostream>
2  #include <set>
3  #include <cstring>
4  #include <vector>
5  #include <map>
6  #include <cmath>
7  #include <algorithm>
8  #include <string>
9  #include <queue>
10 #include <set>
11 #define ll long long
12 using namespace std;
13 const int maxn = 1e3 + 10;
14 const int maxm = 2e4 + 10;
15 vector<int> g[maxn];
16 int deg[maxn];
17 vector<int> seq[maxn];
18 int gcd(int a, int b)
19 {
20     if(a % b == 0)
```

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