CHALLENGE INFORMATION

Course	DAA	**Session**	Divide and Conquer
Question Information	Level 3 Challenge 22	**Problem**	Question Description: One day Easwaran stopped programming and took up math. One late autumn evening he was sitting at a table reading a book and thinking about something. The following statement caught his attention: "Among any six people there are either three pairwise acquainted people or three pairwise unacquainted people" Igor just couldn't get why the required minimum is 6 people. "Well, that's the same for five people, too!" he kept on repeating in his mind. "Let's take, say, Max, Iniya, Viva here, they all know each other! And now let's add Deena and Oleg to Viva none of them is acquainted with each other! Now, that math is just rubbish!" Easwaran took 5 friends of his and wrote down who of them is friends with whom. Now he wants to check whether it is true for the five people that among them there are either three pairwise acquainted or three pairwise not acquainted people. Constraints: $0 \le m \le 10$ $1 \le a_i, b_i \le 5; a_i \ne b_i$ Input Format: The first line contains an integer m, which is the number of relations of acquaintances among the five friends of Igor's. Each of the following m lines contains two integers a_i and b_i, where (a_i, b_i) is a pair of acquainted

people. It is guaranteed that each pair of the acquaintances is described exactly once.

The acquaintance relation is symmetrical, i.e. if *x* is acquainted with *y*, then *y* is also acquainted with *x*.

Output Format:

Print "FAIL", if among those five people there are no either three pairwise acquainted or three pairwise unacquainted people. Otherwise print "WIN".

Test Cases

Logical Test Cases

Test Case 1

INPUT (STDIN)

```
1
4 3
```

EXPECTED OUTPUT

```
WIN
```

Test Case 2

INPUT (STDIN)

```
5
1 2
2 3
3 4
4 5
5 1
```

EXPECTED OUTPUT

```
FAIL
```

Mandatory Test Cases

Test Case 1

KEYWORD

```
cin>>n;
```

Test Case 2

KEYWORD

```
cin>>a>>b;
```

Complexity Test Cases

Test Case 1

CYCLOMATIC COMPLEXITY

```
4
```

Test Case 2

TOKEN COUNT

```
120
```

Test Case 3

NLOC

```
27
```

Code Editor

Code Editor

c

```
1  #include <stdio.h>
2  int main()
3  {
4
5      return 0;
6  }
```

Custo... T1 T2

Type Here

MATCH T1 MATCH T2

Empty

Complexity An...

Test Case Status

SAVE RESET RUN EVALUATE

Waiting for your Submission !

Your code will be Evaluated

For any inquiries, please contact your Faculty or Course Coordinator

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