## Fibonacci factorization

## The Mysterious Affair at Byte Court

Hercule was quietly on hollydays (Noël) at Byte Court when Fibonacci and Lucas (well-dressed) knocked at his door.
They came in, and the first one said : "Monsieur, can you factorise my first 1001 terms, please?". Hercule said : "It was useless to come in to ask that, but since you are here, l'll do that very quickly."
Then Lucas said : "It's not a speed challenge, we like Styles too, the shorter your code is, the best your score is."

## Output

You have to output 1001 lines, the factorization of the 1001 first terms of the Fibonacci sequence. See sample for output details.

## Example

```
F(0)=0
F(1)=1
F(2)=1
F(3)=2
F(4)=3
F(5)=5
F(6)= 2^3
F(7)=13
F(8)=3*7
F(9)= 2 * 17
F(10)= 5 * 11
F(11)=89
F(12)= 2^4* 3^2
[...]
F(1000)= 3 * 5^3 * 7 * 11 [...]
```

