PUM

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	256 megabytes

Given a number N. Print N lines that describes PUM game.

For more clarification see the examples.

Input

Only one line containing a number N ($1 \le N \le 20$).

Output

Print the answer according to the required above.

Examples

standard input	standard output
7	1 2 3 PUM 5 6 7 PUM 9 10 11 PUM 13 14 15 PUM 17 18 19 PUM 21 22 23 PUM 25 26 27 PUM
3	1 2 3 PUM 5 6 7 PUM 9 10 11 PUM

Note

Don't print any extra spaces.