

Problem F5105

Print The Number

Do you remember how to display a digit with asterisk and space? For example the number 8 is represented in the following way.

```
*****
*      *
*      *
*****
*      *
*      *
*****
```

You are given a sequence of single digit integers. Print them using this method. To simplify a bit, the given integer will be nonnegative and less than 4.

Input

The first line consist of a single integer n ($1 \leq n \leq 100$), denoting the total number of integers to print.

The second line consist of n space separated integers a_1, a_2, \dots, a_n , and each a_i is between 0 and 3 inclusive ($0 \leq a_i \leq 3$).

Output

Print those given integers with above method. Between each two integers, separate them with 2 space.

Sample Input

```
4
1 0 0 3
```

Sample Output

```
*  *****  *****  *****
*  *      *  *      *      *
*  *      *  *      *      *
*  *      *  *      *  *****
*  *      *  *      *      *
*  *      *  *      *      *
*  *****  *****  *****
```