

Horizontal strips pattern

Generate following pattern for given size:

```
.....
XXXXX
.....
XXXXX
.....
```

Input

Each test file has n test cases, first line of input has integer n denoting number of test cases, followed by n lines each with a integer denoting the size s.

$0 < n < 10$

$3 \leq s \leq 50$

Output

For each test case print the above mentioned pattern and a empty line.

Example

Input:

```
3
4
3
5
```

Output:

```
....
XXXX
....
XXXX
```

```
...
XXX
...
```

```
.....
XXXXX
.....
XXXXX
.....
```