



# DIAMOND KATA

## DIAMOND KATA

The diamond kata takes as its input a letter, and outputs it in a diamond shape. Given a letter, it prints a diamond starting with 'A', with the supplied letter at the widest point.

## REQUIREMENTS

- The first row contains one 'A'.
- The last row contains one 'A'.
- All rows, except the first and last, have exactly two identical letters.
- All rows have as many trailing spaces as leading spaces. (This might be 0).
- The diamond is horizontally symmetric.
- The diamond is vertically symmetric.
- The diamond has a square shape (width equals height).
- The letters form a diamond shape.
- The top half has the letters in ascending order.
- The bottom half has the letters in descending order.
- The four corners (containing the spaces) are triangles.

## EXAMPLES

In the following examples, spaces are indicated by `·` characters.

Diamond for letter 'A':

```
1 | A
```

Diamond for letter 'C':

```
1 | ··A··  
2 | ·B·B·  
3 | C···C  
4 | ·B·B·  
5 | ··A··
```

Diamond for letter 'E':

```
1 | .....A.....  
2 | ...B·B...  
3 | ··C···C··  
4 | ·D·····D·  
5 | E······E  
6 | ·D·····D·  
7 | ··C···C··  
8 | ...B·B...  
9 | .....A.....
```



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