

1 Description

Write a series of Python programs to draw figures on the console by using only asterisks `*` and spaces.

The figure you draw should be first accumulated into a string, and only after the string has been formed it should be printed. This means that you only have a **single print statement** at your disposal.

The parameters of each figure should be read in the form of user input. This means that any parameters you deem useful, such as height, length, etc. must not be a constant.

```

* * * *
*       *
*       *
* * * *

```

```

*
* *
* * *
* * * *

```

```

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

A full circle ¹

```

      ***
    *****
  *********
*****
*****
*****
*****
*****
  *****
    *****
      ***

```

¹Remember that the points inside a circle are all within a given distance from the center. The distance is computed with the well-known formula of Pythagoras: $\sqrt{(x_1 - x_2) \times (x_1 - x_2) + (y_1 - y_2) \times (y_1 - y_2)}$

```
***
*   *
* _ _ *
* 0 0 *
* \ # / *
* --- *
*   *
***
```