Revision Wed:

1. The mayor has gone mad! They include a new building type called "Park" and denote this with the letter "P" in the string you receive. If you encounter the P in your input string, it means the following number denotes the length of a horizontal building rather than height. Modify your code to include this change **without changing the input string** (e.g. you cannot convert 34P455 to 34111155 and use your original code)**.**

Sample runs (buildings corresponding to P is marked with red in the output):

```
Please enter city plan string: 232P4232
City blueprint:
  *         *
***      ***
**********
```

```
Please enter city plan string: P234P3
City blueprint:
     *
   **
   **
******
```