

9. Write a Java program to generate the following patterns, when the user enters any 6-letter word. Use any of the methods: `substring()`, `charAt()` and `length()`.

Sample:

input → CARMEN

Output Pattern:

(a)

```
CARMEN
CARME
CARM
CAR
CA
C
```

Hint: Use `public static void main(String str[])`,
`str[0].substring(0, 5)` and `str[0].charAt(0)` etc.

(b)

```
C
CA
CAR
CARM
CARME
CARMEN
```

(c)

```
C
 A
  R
   M
    E
     N
```

(d)

```
CAR
    MEN
  CAR
    MEN
```

(e)

```
CC AA RR MM EE NN
```

(f)

```
  C           C
   A         A
    R       R
     M     M
      E E
       N
```