```
top
                              4
                     6
                   .10
                               12
    down
                13 14
                           12
                               16
                 le ft
direction.
                 dir
                            0
                            I
                            2
                            3
while (top < = down
                      42
                            left <= right) <
       if (dir == 0) <
          for Cinti=left to right)
                print (attop] [1];
           4
              1f(djr = = I) <
        4 else
           for Ci= top to down X
               part (arijing WJ);
        y else if (dir == 2) «
            for ci=right to left) <
               print ( ardowyTi);
            down -= 1;
```

```
else if (dir == 3) <

for a i = down to top

print (aristaett))

y

loft f = I

y

dir = (dir+1) y. 4;
```