

## Example 2: Snake



### Lists2

```
1 def create_snake(rows, cols):
2     arr = [[None] * cols for i in range(rows)]
3     value = 1
4     col_index = -1
5
6     for times in range(len(arr)):
7         for row in range(len(arr)):
8             if col_index % 2 != 0:
9                 arr[row * -1 - 1][col_index] = value
10            else:
11                arr[row][col_index] = value
12                value += 1
13                col_index -= 1
14            if abs(col_index) > cols:
15                break
16
17     return arr
```

## Example 3: Diagram Graph



### Lists3

```
1 def diagram_graph(list):
2     max_val = max(list)
3
4     for row in range(max_val, 0, -1):
5         for i in range(len(list)):
6             if list[i] >= row:
7                 print('*', end = ' ')
8             else:
9                 print(' ', end = ' ')
10            print()
11
12     #Cosmetic:
13     # Add cosmetic lines here
```

## Example 4: חיבור ארוך



### Lists4

```
1 def sum_lists(list1, list2):
2     longer_l, shorter_l = (list1, list2) if len(list1) >= len(list2) else (list2, list1)
3     summed_list = [None] * (len(longer_l) + 1)
4     leftover = 0
5
6     for i in range(len(longer_l)):
7         item = longer_l[-i - 1] + leftover
8         if i < (len(shorter_l)):
9             item += shorter_l[-i - 1]
10        if item > 9:
11            item -= 10
12            leftover = 1
13        else:
14            leftover = 0
15        summed_list[-i - 1] = item
16
17    if leftover == 1:
18        summed_list[0] = 1
19    else:
20        summed_list.remove(None)
21
22    return summed_list
```