1-1

```
1  for i in range(1,100,2):
2      print(i)
3  a = 1
4  for i in range(1,50,2):
5      a = a * i
6  print(a)
```

1-2

```
1   list = [1,2,3,4,5]
2   n = len(list)
3   for i in range(n-1,-1,-1):
4       print(list[i])
5
6   while n-1 >= 0:
7       print(list[n-1])
8       n = n - 1
9
10  list_temp = list[::-1]
11  print(list_temp)
```

1-3

```
1   list = input()
2   n = len(list)
3   max = 0
4   count = 1
5   for i in range(1,n,1):
6       if list[i] == list[i-1]:
7           count += 1
8       else:
9           count = 1
10      if count > max:
11          max = count
12  print(max)
```

1-4

```
1  s = input()
2  n = len(s)
3  ans =""
4  for i in range(0,n,1):
5      if s[i] != " ":
6          ans += s[i]
7  print(ans)
```

2-1

```
1  import math
2  import random
```

```python
S =  1 * 2
n = 10000
c = 0
for i in range(n):
    x = random.uniform(0,1)
    y = random.uniform(0,2)
    if y <= pow(x,3) + pow (x,2):
        c += 1

I = (c/n)*S
print(I)

```

2-2

```python
import math
import random
c = float(2)
h = 0.00001
i = random.uniform(0,2)
while pow(i,2) > c or pow((i+1),2) < c:
    i = random.uniform(0,2)
while c - pow(i,2) > 0.0001:
    i += h
print(i)

min = 0
max = c
j = random.uniform(0,2)
while abs(pow(j,2) - c) > 0.0001:
    if pow(j,2) > c:
        max = j
    else:
        min = j
    j = (max + min) / 2
print(j)

t = c / 2
while abs(pow(t,2) - c) > 0.0001:
    t = (t + (c / t) ) / 2
print(t)
```