```
q1 part a

q1 part a input (integer):100
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97]


q1 part b

function input: [1, 2, 3, 1, 1, 2, 1, 1]
[[1, 5], [2, 2], [3, 1]]


q3 part c

function input: [2, 4, 3, 5, 7] , 9
(2, 7)
```

```
q2 part a

q2 part a input (list):[20,25,10,5,40]
[20, 25, 10, 5, 40]


q2 part b

q2 part b input (integer):2
function input: [1, 2, 3, 4, 5] , 2
[3, 4, 5, 1, 2]


q2 part c

function input: [1, 2, 3, 4]
[1, 2, 6, 24]


q2 part d

list: [10, 20, 10, 30, 10] and k: 10
[0, 2, 4]
```

```
q3 part a

q3 part a input (list):[2,5,0,1]
q3 part a input (integer):2
5


q3 part b

q3 part b input (integer):2
7


q3 part c

q3 part c input (list):[2,3,0,-10]
q3 part c input (list):[4,0,1,0,2,1]
4x⁵ + 3x³ + 3x² + 2x - 9
```

```
q4 part a

function input: [1, 4, 2, 9, 11, 10, 19, 5, 12]
[4, 9, 11, 11, 19, 19, 19]


q4 part b

q4 part b input (no. of rows): 2
q4 part b input (no. of columns): 3
Enter row 0: [1,2,3]
Enter row 1: [2,4,6]
1 2 3
2 4 6


q4 part c

n =  3 and m =  3
[[4], [11], [19]]
```