



Introduction To Python

Problem Set 2

Problem 1

Write a program that prints all the lists that can be created with 4 numbers from user...

```
Number 1: 0
Number 2: 1
Number 3: 2
Number 4: 3

[[0, 1, 2, 3], [0, 1, 3, 2], [0, 2, 1, 3], [0, 2, 3, 1], [0, 3, 1, 2], [0, 3, 2, 1],
 [1, 0, 2, 3], [1, 0, 3, 2], [1, 2, 0, 3], [1, 2, 3, 0], [1, 3, 0, 2], [1, 3, 2, 0],
 [2, 0, 1, 3], [2, 0, 3, 1], [2, 1, 0, 3], [2, 1, 3, 0], [2, 3, 0, 1], [2, 3, 1, 0],
 [3, 0, 1, 2], [3, 0, 2, 1], [3, 1, 0, 2], [3, 1, 2, 3], [3, 2, 0, 1], [3, 2, 1, 0]]
```

```
#Paste your code here
```

Problem 2

Write a program that stores the contestants and scores you get from user in the [form of a dictionary](#). Let the program [print the contestant with the highest score](#). Ask the user how many contestants there are.

Note: Assume that all scores are different.

```
How many contestants: 3
Harry
5.71
Tina
6
Harsh
3.5
Highest score: Tina
```

Stored Dictionary = {"Harry":5.71 , "Tina":6 , "Harsh":3.5}

```
#Paste your code here
```

Problem 3

Assume `s` is a string of lower case characters.

Write a program that prints the [longest substring](#) of `s` in which the letters occur in [alphabetical order](#).

For example, if `s = 'azcbobobegghakl'`, then your program should print:

```
Longest substring in alphabetical order is: beggh
```

In the case of ties, print the first substring. For example, if `s = 'abcbcd'`, then your program should print:

```
Longest substring in alphabetical order is: abc
```

```
#Paste your code here
```