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ALPHABETICAL SUBSTRINGS (15/15 points)

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
```

For problems such as these, do not include `raw_input` statements or define the variable `s` in any way. Our automated testing will provide a value of `s` for you - so the code you submit in the following box should assume `s` is already defined. If you are confused by this instruction, please review L4 Problems 10 and 11 before you begin this problem set.

Note: This problem is fairly challenging. We encourage you to work smart. If you've spent more than a few hours on this problem, we suggest that you move on to a different part of the course. If you have time, come back to this problem after you've had a break and cleared your head.

```
1 def solve(strs):
2     maxx = strs[0]
3     for i in xrange(len(strs)):
4         for j in xrange(i+1, len(strs)):
5             s = strs[i:j+1]
6             if ''.join(sorted(s)) == s:
7                 maxx = max(maxx, s, key=len)
8             else:
9                 break
10    return maxx
11
12 print solve(s)
```

Correct

Test results

Hide output

CORRECT

```
s = 'mnlqzdyivrqsksdxxdfmu'
```

Output:

```
dfmu
```

```
s = 'hiyfipdemgiqzvunbxrzylw'
```

Output:

```
giqx
```

```
s = 'nbpahedvfrpdhzmilqvimwg'
```

Output:

```
ilqv
```

```
s = 'oiltqugogjcczz'
```

Output:

```
cczz
```

```
s = 'remoavivwbhbu'
```

Output:

emo

`s = 'qtdvnjltaewkbp'`

Output:

jlt

`s = 'vheipgstiu'`

Output:

eip

`s = 'abcdefghijklmnopqrstuvwxyz'`

Output:

abcdefghijklmnopqrstuvwxyz

```
s = 'tnsejybbpvdzdolvv'
```

Output:

bbpv

```
s = 'krekvgmpuutrmzrp'
```

Output:

gmpuu

```
s = 'qxtvqwzrtwtpfjcjr'
```

Output:

qwz

```
s = 'zyxwvutsrqponmlkjihgfedcba'
```

Output:

z

s = 'kwfyzojnmvlaix'

Output:

fyz

s = 'hreprazdxwbsc'

Output:

epr

s = 'dxwktaumyrtzdcpvumqo'

Output:

rtz

```
s = 'zlqjeybrrslgubbj'
```

Output:

```
brrs
```

```
s = 'bpgpalpdqsdaw'
```

Output:

```
alp
```

```
s = 'qdasfpnfchlenn'
```

Output:

```
chlenn
```

```
s = 'bwxhxhhcr'
```

Output:

bwx

```
s = 'mwuudpukfcdxcpu'
```

Output:

dpu

Hide output

Check

Save

You have used 4 of 30 submissions

If you believe you have correct code but it is marked incorrect after clicking "Check"...

After you submit your code, you can see every test case the graders runs on your code. They compare what your code outputs with what our answer code is supposed to output. Click the small link titled "See Full Output" below the Test Results header.

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