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In [13]: #Q1
lst=[('Sachin Tendulkar', 34357), ('Ricky Ponting', 27483), ('Jack Kallis', 25534),
newList = sorted(lst, key = lambda x : x[1])
print(newList)
''' I could've used sort() method also. The difference between sort and sorted is th

[('Virat Kohli', 24936), ('Jack Kallis', 25534), ('Ricky Ponting', 27483), ('Sachi
n Tendulkar', 34357)]
```

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In [10]: #Q2
lst2=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
list(map(lambda x: x**2,lst2))
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Out[10]: [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
```

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In [14]: #Q3
lst3=[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
tuple(map(lambda x:str(x),lst3))
```

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Out[14]: ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')
```

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In [20]: #Q4
from functools import reduce
lst4=[i for i in range(1,26)]
reduce(lambda x,y:x*y,lst4)
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Out[20]: 15511210043330985984000000
```

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In [21]: '''For cross checking if the previous output is correct or not'''
prod=1
for i in range(1,26):
    prod*=i
print(prod)

15511210043330985984000000
```

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In [25]: #Q5
'''If a number is divisible by both 2 & 3 then it must be divisible by 6'''
lst5=[2, 3, 6, 9, 27, 60, 90, 120, 55, 46]
list(filter(lambda x: x%6==0,lst5))
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Out[25]: [6, 60, 90, 120]
```

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In [27]: #Q6
lst6=['python', 'php', 'aba', 'radar', 'level']
list(filter(lambda x: x==x[::-1],lst6))'''x[::-1] reverses the string as it's also
```

```
Out[27]: ['php', 'aba', 'radar', 'level']
```