Q1. Create a python program to sort the given list of tuples based on integer value using a lambda function.

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Q2. Write a Python Program to find the squares of all the numbers in the given list of integers using lambda and map functions.

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

```
In [7]: l1 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
list(map(lambda x : x**2, l1))
Out[7]: [1, 4, 9, 16, 25, 36, 49, 64, 81, 100]
```

Q3. Write a python program to convert the given list of integers into a tuple of strings. Use map and lambda functions

Given String: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Expected output: ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')

```
In [9]: l2 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
tuple(map(lambda x: str(x) ,l2))
Out[9]: ('1', '2', '3', '4', '5', '6', '7', '8', '9', '10')
```

Q4. Write a python program using reduce function to compute the product of a list containing numbers from 1 to 25.

```
In [12]: from functools import reduce
l = list(range(1,26))
reduce(lambda x, y: x*y ,l)
```

Out[12]: 15511210043330985984000000

Q5. Write a python program to filter the numbers in a given list that are divisible by 2 and 3 using the filter function.

```
[2, 3, 6, 9, 27, 60, 90, 120, 55, 46]
```

```
In [13]: l = [2, 3, 6, 9, 27, 60, 90, 120, 55, 46]
list(filter(lambda x: x%2==0 and x%3==0 , l))
Out[13]: [6, 60, 90, 120]
```

Q6. Write a python program to find palindromes in the given list of strings using lambda and filter function.

['python', 'php', 'aba', 'radar', 'level']