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Practice > Python > Closures and Decorators > Decorators 2 - Name Directory

Decorators 2 - Name Directory ☆

113/115 challenges solved

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Let's use decorators to build a name directory! You are given some information about N people. Each person has a first name, last name, age and sex. Print their names in a specific format sorted by their age in ascending order i.e. the youngest person's name should be printed first. For two people of the same age, print them in the order of their input.

For *Henry Davids*, the output should be:

```
Mr. Henry Davids
```

For *Mary George*, the output should be:

```
Ms. Mary George
```

Input Format

The first line contains the integer N, the number of people.
N lines follow each containing the space separated values of the first name, last name, age and sex, respectively.

Constraints

$1 \leq N \leq 10$

Output Format

Output N names on separate lines in the format described above in ascending order of age.

Sample Input

```
3
Mike Thomson 20 M
Robert Bustle 32 M
Andria Bustle 30 F
```

Sample Output

```
Mr. Mike Thomson
Ms. Andria Bustle
Mr. Robert Bustle
```

Author	harsh_beria93
Difficulty	Easy
Max Score	30
Submitted By	6442

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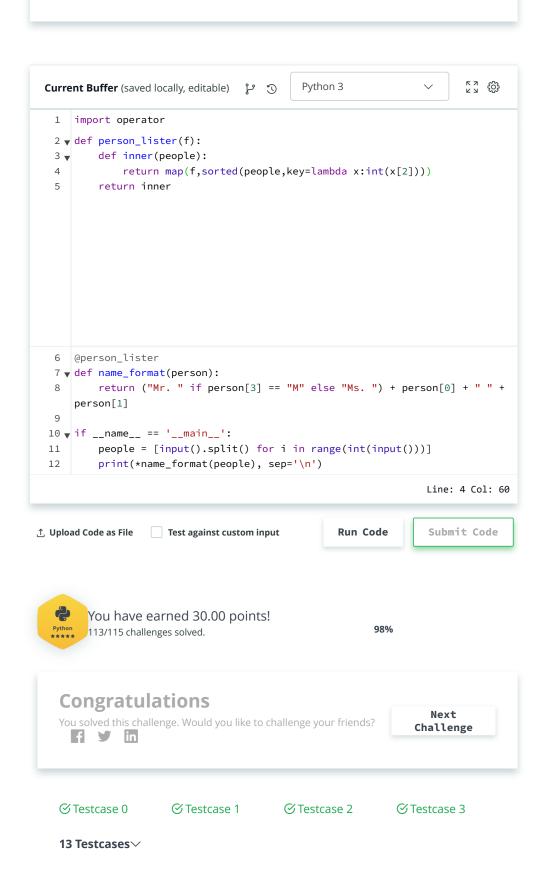
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Concept

For sorting a nested list based on some parameter, you can use the *itemgetter* library. You can read more about it here.

Current Buffer (saved locally, editable)   ⎇ ⟳   Python 3   ⌄   ⤢ ⚙

```python
1   import operator
2   def person_lister(f):
3       def inner(people):
4           return map(f,sorted(people,key=lambda x:int(x[2])))
5       return inner
```

```python
6   @person_lister
7   def name_format(person):
8       return ("Mr. " if person[3] == "M" else "Ms. ") + person[0] + " " +
    person[1]
9
10  if __name__ == '__main__':
11      people = [input().split() for i in range(int(input()))]
12      print(*name_format(people), sep='\n')
```

Line: 4 Col: 60

⬆ Upload Code as File   ☐ Test against custom input   **Run Code**   **Submit Code**

You have earned 30.00 points!
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✅ Testcase 0   ✅ Testcase 1   ✅ Testcase 2   ✅ Testcase 3

13 Testcases ⌄

Input (stdin)   Download   Expected Output   Download

```
3
Mike Thomson 20 M
Robert Bustle 32 M
Andria Bustle 30 F
```

```
Mr. Mike Thomson
Ms. Andria Bustle
Mr. Robert Bustle
```

Compiler Message

Success