Lab 3 Task 6 Solution

6) Implement class RandomPlayer

```
import random
1
      class Player:
3
          """A player in number game
          === Attributes ===
          name:
               The name of player
          === Representation invariants ===
10
          - len(name.strip()) != 0
11
          - 0 <= self.current <= self.goal
12
           - 0 < self.min_step <= self.max_step <= self.goal
14
          name: str
16
          def __init__(self, name: str) -> None:
               """Initialize this Player
18
19
                   Precondition:
20
                       - len(name.strip()) != 0
               0.00
22
23
               self.name = name
          def move(self, current: int, min_step: int,
25
                    max_step: int, goal: int) -> int:
26
               """Return amount of steps taken by a player
27
                   Precondition:
29
                       - 0 < min_step <= max_step <= goal
30
                       - 0 <= self.current <= self.goal
31
               raise NotImplementedError
33
      class RandomPlayer(Player):
35
          def move(self, current: int, min_step: int,
37
                    max_step: int, goal: int) -> int:
               return random.randint(min_step, max_step)
```

Listing 1: task_6_solution.py