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CPE12S1

https://onlinegdb.com/0y8KMh8Ri

```python
import random
from time import sleep
class Runner:
    def __init__(self,name,speed,stamina,steplength,distance):
        self.name=name
        self.speed=speed
        self.stamina=stamina
        self.steplength=steplength
        self.distance=distance

    def run(self):
        if(self.stamina<=0):
            self.speed=.7
        else:
            self.stamina=self.stamina-18
        self.distance=self.distance + (self.steplength*self.speed)
        sleep(0.25)
        print(self.name, "is running, distance is",self.distance)

    def ID(self):
        print(self.name)

#First Object
name=input("Enter name of the first runner:")

RanNum1=random.randint(1,3)
if(RanNum1 == 1):
    speed = 1.33
    stamina = 100
    steplength = 2.1

if(RanNum1 == 2):
    speed = 1.34
    stamina = 120
    steplength = 2.2

if(RanNum1 == 3):
    speed = 1.35
    stamina = 130
    steplength = 2.3

runner1 = Runner(name,speed,stamina,steplength,0)

#Second Object
print("\n")
name=input("Enter name of the second runner:")
```

```python
#Second Object
print("\n")
name=input("Enter name of the second runner:")

RanNum2=random.randint(1,3)
if(RanNum2 == 1):
    speed = 1.33
    stamina = 100
    steplength = 2.1

if(RanNum2 == 2):
    speed = 1.34
    stamina = 120
    steplength = 2.2

if(RanNum2 == 3):
    speed = 1.35
    stamina = 130
    steplength = 2.3

runner2 = Runner(name,speed,stamina,steplength,0)

#Third Object
print("\n")
name=input("Enter name of the third runner:")
RanNum3=random.randint(1,3)

if(RanNum3 == 1):
    speed = 1.33
    stamina = 100
    steplength = 2.1

if(RanNum3 == 2):
    speed = 1.34
    stamina = 120
    steplength = 2.2

if(RanNum3 == 3):
    speed = 1.35
    stamina = 130
    steplength = 2.3
```

```python
runner3 = Runner(name,speed,stamina,steplength,0)
num=4
start = False
while(start==False):
    num=num-1
    print(num)
    sleep(0.5)
    if(num<=1):
        start=True
        print("Start!")
        print("|||||||||||||||||||||||||||Start||||||||||||||||||||||||||||||")
somebodywins = False
while(somebodywins==False):
    runner1.run()
    runner2.run()
    runner3.run()
    if (runner1.distance>=25) :
        somebodywins=True
    if (runner2.distance>=25) :
        somebodywins=True
    if (runner3.distance>=25) :
        somebodywins=True
    if (runner3.distance>=25) and (runner2.distance>=25) and (runner1.distance>=25):
        print("|||||||||||||||||||||||||||Finish||||||||||||||||||||||||||||||")
```

```python
if RanNum2<RanNum1>RanNum3:
    print("\n")
    print("The winner is"),runner1.ID()
    print("\n")
    if runner2.stamina <= 0:
        runner2.ID(),print("Depleted their stamina early")
    elif runner3.stamina <= 0:
        runner3.ID(),print("Depleted their stamina early")
elif RanNum1<RanNum2>RanNum3:
    print("\n")
    print("The winner is"),runner2.ID()
    print("\n")
    if runner1.stamina <= 0:
        runner1.ID(),print("Depleted their stamina early")
    elif runner3.stamina <= 0:
        runner3.ID(),print("Depleted their stamina early")
elif RanNum2<RanNum3>RanNum1:
    print("\n")
    print("The winner is"),runner3.ID()
    print("\n")
    if runner2.stamina <= 0:
        runner2.ID(),print("Depleted their stamina early")
    elif runner1.stamina <= 0:
        runner1.ID(),print("Depleted their stamina early")
elif RanNum2<RanNum3==RanNum1:
    print("\n")
    print("It's a tie! between"),runner3.ID(),print(" & "),runner1.ID()
    print("\n")
    if runner2.stamina <= 0:
        runner2.ID(),print("Depleted their stamina early")
elif RanNum3<RanNum2==RanNum1:
    print("\n")
    print("It's a tie! between"),runner2.ID(),print(" & "),runner1.ID()
    print("\n")
    if runner3.stamina <= 0:
        runner3.ID(),print("Depleted their stamina early")
elif RanNum1<RanNum3==RanNum2:
    print("\n")
    print("It's a tie! between"),runner3.ID(),print(" & "),runner2.ID()
elif RanNum2==RanNum3==RanNum1:
    print("\n")
    print("It's a tie!")
else:
    print("Error")
```

```
Enter name of the first runner:Jen


Enter name of the second runner:Ban


Enter name of the third runner:Gun
3
2
1
Start!
|||||||||||||||||||||||||Start|||||||||||||||||||||||||||||
Jen is running, distance is 2.793
Ban is running, distance is 3.105
Gun is running, distance is 2.9480000000000004
Jen is running, distance is 5.586
Ban is running, distance is 6.21
Gun is running, distance is 5.896000000000001
Jen is running, distance is 8.379000000000001
Ban is running, distance is 9.315
Gun is running, distance is 8.844000000000001
Jen is running, distance is 11.172
Ban is running, distance is 12.42
Gun is running, distance is 11.792000000000002
Jen is running, distance is 13.965
Ban is running, distance is 15.525
Gun is running, distance is 14.740000000000002
Jen is running, distance is 16.758
Ban is running, distance is 18.63
Gun is running, distance is 17.688000000000002
Jen is running, distance is 18.227999999999998
Ban is running, distance is 21.735
Gun is running, distance is 20.636000000000003
Jen is running, distance is 19.697999999999997
Ban is running, distance is 24.84
Gun is running, distance is 22.176000000000002
Jen is running, distance is 21.167999999999996
Ban is running, distance is 26.45
Gun is running, distance is 23.716


The winner is
Ban


Jen
Depleted their stamina early
```