

Assignment3

Group members:

Vaibhav Jadhav(225)

Sarthak Vijay Jagadale(226)

Hiten Shah(224)

```
import numpy as np
a=np.loadtxt("Player stat.csv",skiprows=1,delimiter=",")
print(a)
print(a.dtype)

a=a.astype(int)
print(a.dtype)
print(a)

print(np.shape(a))

#print salaries of all players
print(a[:,1])
#print runs of all players
print(a[:,2])
#print sum of all salaries
print(sum(a[:,1]))
#print avg of salaries
print(max(a[:,1]/10))
#print maximum player salary
print(max(a[:,1]))
#print minimum player salary
print(min(a[:,1]))
#print Player code whose salary is maximum
print(np.argmax(a[:,1]))
index=np.argmax(a[:,1])
print("Player code:",a[index][0])
#print runs of player whose salary is maximum
b=np.argmax(a[:,1])
print("Player runs:",a[b][2])
#print player code whose salary is greater than equal to 50000
print(np.where(a[:,1]>=50000))
c=np.where(a[:,1]>=50000)
for i in range(len(c)):
    print(a[c[i],0])
#print player code whose bonus is greater than equal to 10000
print(np.where(a[:,2]>=10000))
d=np.where(a[:,2]>=10000)
for i in range(len(c)):
    print(a[d[i],0])

#print player code whose salary >80000 and bonus>20000
c1=(a[:,1]>=80000)
print(c1)
c2=(a[:,2]>=20000)
print(c2)
print(a[c1 & c2,0])
#print salaries in ascending order
print(np.sort(a[:,1]))
```

Salaries of players:[[1.0000e+01 1.0000e+01 3.0300e+04 3.6000e+01 6.0000e+00]
[7.0000e+00 1.5000e+01 6.0000e+03 2.5000e+01 1.0000e+00]
[1.7000e+01 5.0000e-01 5.0000e+04 5.0000e+01 5.0000e+00]
[1.0100e+02 2.0000e+01 6.9251e+04 3.3000e+01 8.0000e+00]
[4.5000e+01 1.0000e-01 3.2100e+03 3.5000e+01 1.0000e+01]
[3.3300e+02 1.0000e+01 2.5501e+04 3.7000e+01 7.0000e+00]
[2.4000e+01 5.0000e+01 1.1110e+03 2.6000e+01 2.0000e+00]
[1.9000e+01 1.0000e+02 3.2160e+03 5.1000e+01 6.0000e+00]
[2.1000e+01 1.0100e+02 6.0010e+03 3.4000e+01 9.0000e+00]
[9.9000e+01 2.0000e+01 7.0010e+03 3.6000e+01 1.1000e+01]]

float64

int64

Runs of players:[[10 10 30300 36 6]

[7 15 6000 25 1]
[17 0 50000 50 5]
[101 20 69251 33 8]
[45 0 3210 35 10]
[333 10 25501 37 7]
[24 50 1111 26 2]
[19 100 3216 51 6]
[21 101 6001 34 9]
[99 20 7001 36 11]]

(10, 5)

[10 15 0 20 0 10 50 100 101 20]

Sum of all runs:[30300 6000 50000 69251 3210 25501 1111 3216 6001 7001]

326

Avg Salary10.1

Max Player salary:101

Minimum Player sal:0

8

Player code: 21

Player runs: 6001

(array([], dtype=int64),)

[]

(array([0, 2, 3, 5]),)

[10 17 101 333]

[False False False False False False False False False False]

[True False True True False True False False False False]

[]

salaries in ascending order:[0 0 10 10 15 20 20 50 100 101]