1.إذا أردت أن تتفاوض على راتبك بشكل أفضل يجب أن تكون على معرفة جيدة بسوق العمل، فمن أجل معرفة أفضل عن رواتب المبرمجين قمنا بتجميع بعض البيانات عن رواتبهم والتي ستجدها بالأسفل، ومن أجل فهم السوق بشكل أفضل سنقوم بتصميم برنامجنا لكي يساعدنا ويجيب عن الأسئلة التالية

Maximum salary:	EGP	
Top 5 salaries:		EGP
Minimum salary:	EGP	
Bottom 5 salaries:		EGP
Average salary:	EGP	
Number of people with salary = 15,500 EGP:		

{codezi//a}

```
# salaries list
salaries = [
    64700, 23100, 81800, 31300, 35500, 84300, 25900,
    15500, 24500, 69000, 40100, 86100, 17000, 55800,
    17400, 15400, 93500, 30000, 68500, 70400, 60200,
    65500, 57100, 20800, 19500, 96200, 43400, 15500,
    36200, 16100, 21300, 63500, 83900, 85600, 40700,
    75700, 53700, 18400, 18400, 48800, 72300, 64600,
    77700, 97300, 64700, 53500, 34300, 76700, 41200,
    78300, 76000, 23600, 31800, 46800, 67600, 96700,
    60000, 33500, 96300, 65800, 80100, 59500, 78600,
    42500, 37700, 58800, 92300, 76000, 65300, 89600,
    22500, 98200, 99100, 38600, 42200, 16400, 17200,
    97600, 60500, 20800, 78500, 71100, 43700, 46500,
    51200, 87600, 68900, 85400, 44400, 53600, 91700,
    93200, 13300, 14200, 49500, 56600, 44400, 89700,
    21300, 100000, 63900, 78600, 61800, 50400, 39700,
    23100, 26300, 70700, 82700, 11400, 55000, 82900,
    54300,78300, 44900, 12600, 21500, 87500, 32200,
    47400, 13800, 54000, 11600, 68100, 94700, 51000,
    20800, 80100, 53700, 25000, 55900, 11700, 61300,
    93800, 72800, 46200, 39800, 96900, 66700, 55400,
    40600, 87000,93400, 74800, 84500, 17100, 38800,
    49100, 64000, 69200, 10540, 12300, 16900, 14500,
    105540, 21080, 12760, 19960, 13960, 14280, 12680,
    17000, 15960, 12760, 113240, 17400, 15500, 15080,
    19240, 18360, 13480, 14120,17000, 11000, 11720,
    117400, 18840, 21100, 9480, 10440, 17560, 11400,
    9640, 17000, 20360, 9720, 14040, 8792, 10200,
    13880, 11960
```

```
# extra salary list
extra_salaries = [
    13300, 20500, 12100, 17200, 10600, 16600, 18100,
    17600, 20400, 12600, 12300, 18800, 15300, 14300,
    19800, 11500, 12500, 12700, 18300, 17800, 20500,
    13800, 20300, 11100, 15300, 11200, 18300, 12500,
    16800, 12100, 20200, 18700, 20100, 13700, 13400,
    19600, 19200, 15800, 10900, 19500, 13000, 17400,
    10600, 13900, 10800, 14800, 16600, 19200, 18300,
    14700, 19100, 12100, 12400, 16300, 13900, 15700,
    17700, 12100, 13000, 13700, 15300, 14800, 19400,
    13700, 18000, 11300, 14400, 20200, 17600, 19900,
    13300, 19100, 17400, 12400, 19200, 11100, 18700
    ]
```



## يمكنك إذا لم تصل للإجابة، أن تحاول مرة أخرى بمساعدة الخطوات التالية

```
# make a new list with the salaries and extra_salaries

# sort the salaries

# calculate maximum salary

# Top 5 salaries

# calculate minimum salary

# Bottom 5 salaries

# average = total / number of salaries

# number of people with salary = 15500 using count list method

# print the results
```



```
# salaries list
salaries = [
    64700, 23100, 81800, 31300, 35500, 84300, 25900,
    15500, 24500, 69000, 40100, 86100, 17000, 55800,
    17400, 15400, 93500, 30000, 68500, 70400, 60200,
    65500, 57100, 20800, 19500, 96200, 43400, 15500,
    36200, 16100, 21300, 63500, 83900, 85600, 40700,
    75700, 53700, 18400, 18400, 48800, 72300, 64600,
    77700, 97300, 64700, 53500, 34300, 76700, 41200,
    78300, 76000, 23600, 31800, 46800, 67600, 96700,
    60000, 33500, 96300, 65800, 80100, 59500, 78600,
    42500, 37700, 58800, 92300, 76000, 65300, 89600,
    22500, 98200, 99100, 38600, 42200, 16400, 17200,
    97600, 60500, 20800, 78500, 71100, 43700, 46500,
    51200, 87600, 68900, 85400, 44400, 53600, 91700,
    93200, 13300, 14200, 49500, 56600, 44400, 89700,
    21300, 100000, 63900, 78600, 61800, 50400, 39700,
    23100, 26300, 70700, 82700, 11400, 55000, 82900,
    54300,78300, 44900, 12600, 21500, 87500, 32200,
    47400, 13800, 54000, 11600, 68100, 94700, 51000,
    20800, 80100, 53700, 25000, 55900, 11700, 61300,
    93800, 72800, 46200, 39800, 96900, 66700, 55400,
    40600, 87000,93400, 74800, 84500, 17100, 38800,
    49100, 64000, 69200, 10540, 12300, 16900, 14500,
    105540, 21080, 12760, 19960, 13960, 14280, 12680,
    17000, 15960, 12760, 113240, 17400, 15500, 15080,
    19240, 18360, 13480, 14120, 17000, 11000, 11720,
    117400, 18840, 21100, 9480, 10440, 17560,11400,
    9640, 17000, 20360, 9720, 14040, 8792, 10200,
    13880, 11960
# extra salary list
extra salaries = [
    13300, 20500, 12100, 17200, 10600, 16600, 18100,
    17600, 20400, 12600, 12300, 18800, 15300, 14300,
    19800, 11500, 12500, 12700, 18300, 17800, 20500,
    13800, 20300, 11100, 15300, 11200, 18300, 12500,
    16800, 12100, 20200, 18700, 20100, 13700, 13400,
    19600, 19200, 15800, 10900, 19500, 13000, 17400,
    10600, 13900, 10800, 14800, 16600, 19200, 18300,
```



```
14700, 19100, 12100, 12400, 16300, 13900, 15700,
   17700, 12100, 13000, 13700, 15300, 14800, 19400,
   13700, 18000, 11300, 14400, 20200, 17600, 19900,
   13300, 19100, 17400, 12400, 19200, 11100, 18700
# make a new list with the salaries and extra salaries
all salaries = salaries.copy()
all_salaries.extend(extra_salaries)
# sort the salaries
salaries sorted = all salaries[:]
salaries sorted.sort(reverse=True)
# calculate maximum salary
max salary = salaries sorted[0]
# Top 5 salaries
top 5 salaries = salaries sorted[:5]
# calculate minimum salary
min salary = salaries sorted[-1]
# Bottom 5 salaries
bottom_5_salaries = salaries_sorted[-5:]
# average = total / number of salaries
total salary = sum(salaries sorted)
number of salaries = len(salaries sorted)
average salary = total salary / number of salaries
# number of people with salary = 15500
number of 15500 = salaries sorted.count(15500)
```

```
# print the results
print(f'Maximum salary: {max_salary:,} EGP\n')
print(f'Top 5 salaries: {top_5_salaries} EGP\n')
print('-'*20)

print(f'Minimum salary: {min_salary:,} EGP\n')
print(f'Bottom 5 salaries: {bottom_5_salaries} EGP\n')
print('-'*20)

print(f'Average salary: {average_salary:,.0f} EGP')
print('-'*20)

print(f'Number of people with salary = 15,500 EGP: {number_of_15500:,}')
```

