```
210104004041 — -zsh — 80×24
                     Average GPA of 10.000 x 10.000 students: 1.988828
                     Completed tests....
                     bariserengezici@Bars-MacBook-Pro 210104004041 % make
                     Cleaning...
                     Compiling...
                     Running the tests....
                     Average GPA of 10.000 x 10.000 students: 1.97
                     Completed tests....
%d ",sec array[i]
                     [bariserengezici@Bars-MacBook-Pro 210104004041 % make
                     Cleaning...
                     Compiling...
                     Running the tests....
                     Average GPA of 10.000 x 10.000 students: 1.99
```

OI (III L / /)

of(int));

```
float part3(){
                                                            210104004041 — -zsh — 80×24
                                                           Average GPA of 10.000 x 10.000 students: 2.00
   Student *stu array= (Student* )malloc(10000* sizeof(Student*)
   float avg=0:
                                                           Completed tests....
                                                           [bariserengezici@Bars-MacBook-Pro 210104004041 % make
   int temp;
                                                            Cleaning...
    float temp qpa;
                                                           Compiling...
    for (int i = 0; i < 10000; i++)
                                                            Running the tests....
                                                           Average GPA of 10.000 x 10.000 students: 1.99
       temp= rand() % 10000; //random id
                                                            ______
       stu array[i].ID=temp;
                                                           Completed tests....
                                                           [bariserengezici@Bars-MacBook-Pro 210104004041 % make
       temp= rand() % 100; //random age max 99 :D
                                                           Cleaning...
       stu arrav[i].age=temp;
                                                           Compiling...
                                                            Running the tests....
       temp gpa= rand() % 4; //before the comma
                                                            ______
       temp_gpa= temp_gpa + (rand() % 100)*0.01; //after th Average GPA of 10.000 x 10.000 students: 2.00
       stu array[i].gpa=temp gpa;
       //printf("id:%d age:%d gpa:%.3f \n",stu array[i].ID,stu array[i].age,stu array[i].gpa);
    float sum=0;
    for (int a = 0; a < 10000; a++) sum= sum+ stu_array[a].gpa;
   avg= sum/10000;
   free(stu_array);
                                       Ekran Resmi
    return avg;
```

```
sum=sum+arrav[i]:
                                                        210104004041 — -zsh — 80×24
       sec arrav[i]=sum;
                                                        Completed tests....
                                                        [bariserengezici@Bars-MacBook-Pro 210104004041 % make
                                                        Cleaning...
   printf("\n\nsecond array:");
   for (int i = 0; i < size; i++) printf("%d ".sec arrav[i]
                                                        Compiling...
                                                        Running the tests....
   free(sec array);
                                                        _____
                                                        Average GPA of 10.000 x 10.000 students: 2.00
   free(array); */
                                                        _____
                                                        Completed tests....
                                                        [bariserengezici@Bars-MacBook-Pro 210104004041 % make
   srand(time(NULL));
                                                        Cleaning...
   float avg gpa;
                                                        Compiling...
                                                        Running the tests....
   float all sums=0;
                                                        Average GPA of 10.000 x 10.000 students: 1.99489903
   for (int i = 0; i < 10000; i++)
                                                        ______
                                                        Completed tests....
                                                        bariserengezici@Bars-MacBook-Pro 210104004041 %
       avg gpa=part3();
       all sums= all sums+ avg gpa;
   float final avg;
   final_avg=all_sums/10000;
   printf("Average GPA of 10.000 x 10.000 students: %.8f\n",final avg);
   return 0;
                                    Ekran Resmi
float part3(){
```

```
sum=sum+arrav[i]:
                                                        210104004041 — -zsh — 80×24
       sec arrav[i]=sum;
                                                        Completed tests....
                                                        [bariserengezici@Bars-MacBook-Pro 210104004041 % make
                                                        Cleaning...
   printf("\n\nsecond array:");
   for (int i = 0; i < size; i++) printf("%d ".sec arrav[i]
                                                        Compiling...
                                                        Running the tests....
   free(sec array);
                                                        _____
                                                        Average GPA of 10.000 x 10.000 students: 1.99489903
   free(array); */
                                                        _____
                                                        Completed tests....
                                                        [bariserengezici@Bars-MacBook-Pro 210104004041 % make
   srand(time(NULL));
                                                        Cleaning...
   float avg gpa;
                                                        Compiling...
                                                        Running the tests....
   float all sums=0;
                                                        Average GPA of 10.000 x 10.000 students: 1.99493825
   for (int i = 0; i < 10000; i++)
                                                        ______
                                                        Completed tests....
                                                        bariserengezici@Bars-MacBook-Pro 210104004041 %
       avg gpa=part3();
       all sums= all sums+ avg gpa;
   float final avg;
   final_avg=all_sums/10000;
   printf("Average GPA of 10.000 x 10.000 students: %.8f\n",final avg);
   return 0;
                                    Ekran Resmi
float part3(){
```

```
baris@baris-VirtualBox: ~/Desktop/New Folder/210104004041/210104004041 🔍 🗏
       F
value is
      baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make run
      Running the tests....
      Enter the size of the array:8
OART2*** enter 8 elements of the array:1 42 53 75 12 9 52215 63
(int *)c The min value is :1
ay:");
     Completed tests....
< size baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make</pre>
array[i
     Cleaning...
/[i];
=SUM;
      Compiling...
nd array Running the tests....
< size</pre>
      Enter the size of the array:6
      enter 6 elements of the array:2 4 6 8 10 12
      PART2****
      first array:2 4 6 8 10 12
Completed tests....
      baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$
3();
```

```
baris@baris-VirtualBox: ~/Desktop/New Folder/210104004041/210104004041 🔍 🗏 🗆 🗆
         F
       baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make run
       Running the tests....
       Average GPA of 10.000 x 10.000 students: 1.99495959
       Completed tests....
size
       baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make
       Cleaning...
       Compiling...
TESTED
       Running the tests....
i < size
       Enter the size of the array:5
       enter 5 elements of the array:1 2 3 4 5
<min) mi
       The min value is :1
/alue
       Completed tests....
       baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make run
       Running the tests....
       Enter the size of the array:8
PART2**
       enter 8 elements of the array:1 42 53 75 12 9 52215 63
(int *)
       The min value is :1
ay:");
       Completed tests....
array[i]baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$
```

```
baris@baris-VirtualBox: ~/Desktop/New Folder/210104004041/210104004041 🔍 🗏 🗆 🗆
       F
      baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make
e size d
      Cleaning...
      Compiling...
      Running the tests....
TESTED
      Average GPA of 10.000 x 10.000 students: 1.99502146
      _____
< size
      Completed tests....
      baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$ make run
<min) mi
      Running the tests....
      /alue is
      Average GPA of 10.000 x 10.000 students: 1.99495959
      Completed tests....
      baris@baris-VirtualBox:~/Desktop/New Folder/210104004041/210104004041$
PART2***
(int *)c
av:");
< size
,array[i
/[i];
=SUM;
nd array
```