## First fit!

```
using namespace std:
⊟class Partition {
public:
int size;
   int index;
                                                                                                                                                                  Microsoft Visual Studio Debug Console
   Partition() {
                  Number of chosen processes: 5
      size = 0:
      index = -1;
                  Number of chosen partitions: 4
                  Size of partition 1: 100
   Partition(int s,
                  Size of partition 2: 300
      size = s;
index = i;
                  Size of partition 3: 200
                  Size of partition 4: 450
};
                  Size of process 1: 200
Eclass Process {
                  Size of process 2: 100
   int size:
                  Size of process 3: 300
   int partition_inde
   int waste;
                  Size of process 4: 300
                  Size of process 5: 200
      size = 0;
partition_index
Jobs
                            Partitions
                                                 Status Waste num
                                                           Run
   Process(int s) {
                                                           Run
                                                                      0
      size = s;
partition_index 3
                                                           Run
                                                                      150
      waste = -1:
                                                           Wait
                                                                      0
                                                           Run
class MemoryManager {
private:
                   Total Waste: 250
   int num_processes;
int num_partitions;
   Process* processes;
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the
```

## Next fit!

```
Microsoft Visual Studio Debug Console
number of chosen processes: 5
 size of process 1: 200
<sup>lart</sup>size of process 2: 100
 size of process 3: 300
size of process 4: 300
insize of process 5: 200
 number of partitions: 4
Rursize of partition 1: 100
 size of partition 2: 300
 size of partition 3: 200
 size of partition 4: 450
  Job
          Partition ID
                           Status Waste amount
                   2
                                            100
                                   Run
                                            100
                                   Run
                   4
                                            150
                                   Run
                                   Wait
                                   Wait
  Total Waste: 350
  C:\Users\Eyad\source\repos\nexxt fit\Debug\nexxt fit.exe (process 22632) exited with code 0.
```

## Best fit!

```
V 🐔 🖫
                                                                                                           input
number of processes: 5
size of process 1: 200
size of process 2: 100
size of process 3: 300
size of process 4: 300
size of process 5: 200
number of partitions: 4
size of partition 1: 100
size of partition 2: 300
size of partition 3: 200
size of partition 4: 450
Job
        Partition ID
                        Status Waste amount
                3
                                        0
                1
                                        0
                                Run
                2
                                Run
                                        0
                4
                               Run
                                        150
                               Wait
Total Waste: 150
```

## Worst fit!

```
Microsoft Visual Studio Debug Console
number of processes: 5
size of process 1: 200
size of process 2: 100
size of process 3: 300
size of process 4: 300
size of process 5: 200
number of partitions: 4
size of partition 1: 100
size of partition 2: 300
size of partition 3: 200
size of partition 4: 450
Worst Fit Algorithm
        Partition ID
                        Status Waste amount
                4
                                 Run
                                         250
                                 Run
                                         200
                                 Wait
                                 Wait
                4
                                         50
                                 Run
```