

# Homework Turnin

Account: 6G\_06 (rgalanos@fcps.edu)  
Section: 6G  
Course: TJHSST APCS 2016-17  
Assignment: 06-05  
Receipt ID: 7150786d1983bea537749c6858dcc221

Warning: Your turnin is 1 day late. Assignment 06-05 was due Friday, January 27, 2017, 12:00 AM.

## Turnin Successful!

The following file(s) were received:

McDonald.java (76025 bytes)

```
1. //name :   date:
2.
3. import java.util.*;
4. public class McDonald
5. {
6.     public static final int TIME = 1079; //18 hrs * 60 min
7.     public static void main(String[] args)
8.     {
9.         int numberCustomers = 0;
10.        int totalWait = 0;
11.        int longestWait = 0;
12.        int currentSize = 0;
13.        int longestQueue = 0;
14.        int servingTime = 100;
15.        int count = 0;
16.
17.
18.        Queue<Integer> customers = new LinkedList<Integer>();
19.
20.        for(int i=0; i<TIME; i++)
21.        {
22.            if(Math.random()<0.2)
23.            {
24.                customers.add(new Integer(i));
25.                currentSize++;
26.                numberCustomers++;
27.            }
28.            if(!customers.isEmpty())
29.            {
30.                if(customers.peek()==i)
31.                    servingTime = (int)(Math.random()*6+2);
32.                else
33.                    count++;
34.            }
35.            if(servingTime==count)
36.            {
37.                int x = i - customers.remove();
38.                currentSize--;
39.                totalWait+=x;
40.                if(x>longestWait)
41.                    longestWait = x;
42.                if(!customers.isEmpty())
```

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43.         servingTime = (int)(Math.random()*6+2);
44.         count = 0;
45.     }
46.
47.     if(currentSize>longestQueue)
48.         longestQueue = currentSize;
49.
50.     System.out.print(i+": ");
51.     display(customers);
52. }
53.
54. int counter = 1079;
55. while(!customers.isEmpty())
56. {
57.     count++;
58.     if(servingTime==count)
59.     {
60.         int x = counter - customers.remove();
61.         totalWait+=x;
62.         if(x>longestWait)
63.             longestWait = x;
64.         servingTime = (int)(Math.random()*6+2);
65.         count = 0;
66.     }
67.
68.     System.out.print(counter+": ");
69.     display(customers);
70.     counter++;
71. }
72.
73. System.out.println("Total customers served = " + numberCustomers);
74. System.out.println("Average wait time = " + (double)totalWait/numberCustomers);
75. System.out.println("Longest wait time = " + longestWait);
76. System.out.println("Longest queue = " + longestQueue);
77. }
78. public static void display(Queue<Integer> q)
79. {
80.     System.out.println(q);
81. }
82. }
83. /* Sample output
84. ----jGRASP exec: java McRonalD
85.
86. 0: []
87. 1: []
88. 2: []
89. 3: []
90. 4: []
91. 5: []
92. 6: []
93. 7: []
94. 8: []
95. 9: []
96. 10: []
97. 11: [11]
98. 12: [11]
99. 13: [11, 13]
100. 14: [11, 13]
101. 15: [11, 13]
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123. 37: [29]

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11/17

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882.	796:	[718, 727, 732, 735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793]		
883.	797:	[718, 727, 732, 735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793, 797]		
884.	798:	[718, 727, 732, 735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793, 797, 798]		
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889.	803:	[732, 735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793, 797, 798]		
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891.	805:	[732, 735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793, 797, 798]		
892.	806:	[735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793, 797, 798]		
893.	807:	[735, 744, 749, 754, 758, 765, 769, 775, 784, 785, 789, 793, 797, 798]		
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924.	838:	[765, 769, 775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835]		
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928.	842:	[769, 775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835, 841]		
929.	843:	[769, 775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835, 841]		
930.	844:	[769, 775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835, 841]		
931.	845:	[775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835, 841]		
932.	846:	[775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835, 841]		
933.	847:	[775, 784, 785, 789, 793, 797, 798, 813, 814, 816, 817, 818, 819, 831, 832, 835, 841]		



[illegible]









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1258. 1173: [1070]
1259. 1174: [1070]
1260. 1175: []
1261. Total customers served = 190
1262. Average wait time = 67.62105263157895
1263. Longest wait time = 156
1264. Longest queue = 22
1265. */
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