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1 /Users/khalidkhan/Workspace/CPP/SmallGroupProject01/cmake-build-debug/SmallGroupProject01
2 CSC 340 Small Group Project | Group 2
3 1) Generate a histogram of randomly generated floating-point numbers according to a normal distribution with a user-specified mean and standard deviation.
4 2) Generate a histogram of randomly generated floating-point numbers according to a uniform distribution with a user-specified minimum and maximum.
5 3) There are x learners who haven't found a small group yet. Please design and implement an algorithm to randomly assign them to an existing group or a newly created group if all existing
   groups are full. Constraints: (1) Each group will be limited to 3 members; and (2) students in the same group must be enrolled in the same section.
6 0) Exit
7 Please enter a number: 1
8 You chose Q1
9 Enter Mean
10 50
11 Enter Standard Deviation (Standard deviation should be greater than or equal to 1)
12 2
13 Enter Number of Samples
14 20000
15 Enter Number of Bins
16 9
17
18
19
20
21
22
23
24
25
26
27
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   groups are full. Constraints: (1) Each group will be limited to 3 members; and (2) students in the same group must be enrolled in the same section.
31 0) Exit
32 Please enter a number: 2
33 You chose 2
34 Enter range of numbers:
35 2
36 10
37 Enter Number of Samples
38 20000
39 Enter Number of Bins
40 21
41
42
43
44
45
46
47
48
49
50
51
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   groups are full. Constraints: (1) Each group will be limited to 3 members; and (2) students in the same group must be enrolled in the same section.
55 0) Exit
56 Please enter a number: 3
57 You chose 3
58 Group number 0 means student is not in any group yet.
```

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100 Enter number of members per group:
101 3
```

```
102 Initial grouping of students:
103 Section 1
```

```
104 Group 0
105 Lucas
```

106 Group 1  
107 Khalid Javlene Diva

107	Khalida	Salma	Salma
108	Group 2		
109	Hilary	Khaliesi	Sara

```

109 110 Group 3
111 Dat

```

```

111  Dat
112  Group 4
113  Sam

```

113	Sam	Elena	Niguel
114	Group 5		
115	Lee	Zack	

115 Leu                      ZACK  
116  
117 Section 2

```

117 Section 2
118 Group 0
119 Name

```

119	Noah	Isabella	William	Fiona	George	Hannah
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120 Group 1
121 Rene      Emma      Oliver
122 Group 2
123 Liam      Ava
124 Group 3
125 Benjamin  Sophia
126 Group 4
127 Charlotte Amelia
128 Group 5
129 Elijah    Harper    James
130
131 Final grouping of students:
132 Section 1
133 Group 0
134
135 Group 1
136 Khalid     Jaylene   Diya
137 Group 2
138 Hilary     Khaliesi   Sara
139 Group 3
140 Dat        Mia       Marie
141 Group 4
142 Sam        Elena     Miguel
143 Group 5
144 Leo        Zack
145 Group 6
146 Edward     Lucas     Daisy
147 Group 7
148 Bob        Alice     Charlie
149
150 Section 2
151 Group 0
152
153 Group 1
154 Rene      Emma      Oliver
155 Group 2
156 Liam      Ava       William
157 Group 3
158 Benjamin  Sophia    Isabella
159 Group 4
160 Charlotte Amelia    Fiona
161 Group 5
162 Elijah    Harper    James
163 Group 6
164 Hannah    George    Noah
165
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    existing groups are full. Constraints: (1) Each group will be limited to 3 members; and (2) students in the same group must be enrolled in the same section.
169 0) Exit
170 Please enter a number:
171 Process finished with exit code 143 (interrupted by signal 15: SIGTERM)
172
```