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1  /**Q 1. If-Else Question:*/
2
3  #include <stdio.h>
4  int main() {
5      int x = 5;
6      if (x > 5)
7          printf("A");
8      else if (x > 3)
9          printf("B");
10     else if (x > 2)
11         printf("C");
12     else
13         printf("D");
14     return 0;
15 }
16
17 /**
18  Output:B
19  */
20
21 /**Q 2. Switch Case Question:*/
22 #include <stdio.h>
23 int main() {
24     int num = 2;
25     switch (num) {
26         case 1:
27             printf("One ");
28         case 2:
29             printf("Two ");
30         case 3:
31             printf("Three ");
32         default:
33             printf("Default ");
34     }
35     return 0;
36 }
37 /**
38  Output: Two Three Default
39  */
40
41 //Q 3. Nested If-Else Question:
42 #include <stdio.h>
43 int main() {
44     int x = 5, y = 10;
45     if (x > 3) {
46         if (y > 5)
47             printf("A");
48         else
49             printf("B");
50     } else {
51         printf("C");
52     }
53     return 0;
54 }
55
56 /**
57  Output: A
58  */
59
60 //Q 4. Ternary Operator Question with Nested Ternary Operators:
61 #include <stdio.h>
62 int main() {
63     int x = 5, y = 10, z = 15;
64     int result = (x > y) ? ((x > z) ? x : z) : ((y > z) ? y : z);
65     printf("%d", result);
66     return 0;
```

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67 }
68
69 /**
70 Output: 15
71 */
72
73 //Q 5. Ternary Operator Question with Character Comparison:
74 #include <stdio.h>
75 int main() {
76 char grade = 'B';
77 char result = (grade == 'A') ? 'P' : ((grade == 'B') ? 'Q' : 'R');
78 printf("%c", result);
79 return 0;
80 }
81 /**
82 Output: Q
83 */
84
85 //Q 6. Ternary Operator Question with Mixed Data Types:
86 #include <stdio.h>
87 int main() {
88 int x = 5;
89 char result = (x > 0) ? 'A' : 65;
90 printf("%c", result);
91 return 0;
92 }
93 /**
94 Output: A
95 */
96
97 //Q 7. Switch Case with Ranges
98 #include <stdio.h>
99 int main() {
100 int score = 85;
101 switch (score / 10) {
102 case 9:
103 printf("A");
104 break;
105 case 8:
106 printf("B");
107 break;
108 case 7:
109 printf("C");
110 break;
111 case 6:
112 printf("D");
113 break;
114 default:
115 printf("F");
116 }
117 return 0;
118 }
119 /**
120 Output: B
121 */
122
123
124 //Q 8. Switch Case with Ranges
125 #include <stdio.h>
126 int main() {
127 char letter = 'J';
128 switch (letter) {
129 case 'A' ... 'D':
130 printf("Pass");
131 break;
132 case 'E' ... 'H':

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133 printf("Average");
134 break;
135 default:
136 printf("Fail");
137 }
138 return 0;
139 }
140 /**
141 Output: Fail
142 */
143
144 //Q 9. Same range type but using If-else
145 #include <stdio.h>
146 int main() {
147 char letter = 'J';
148 if (letter >= 'A' && letter <= 'D') {
149 printf("Pass");
150 } else if (letter >= 'E' && letter <= 'H') {
151 printf("Average");
152 } else {
153 printf("Fail");
154 }
155 return 0;
156 }
157 /**
158 Output: Fail
159 */
160
161 //Q 10. Operator Precedence:
162 What is the result of the following expression?
163 int result = 5 + 10 * 2 / 2 - 3;
164
165 /**
166 Output: 12
167 */
168
169 /*
170 Numbering mistake in the question bank after Q 10 Q 12 is there
171 */
172
173 //Q 12. Combining Logical Operators:
174 //What is the value of `result` in the following code?
175 int x = 5, y = 10, result;
176 result = (x > 3) && (y < 15);
177
178 /**
179 Output: 1
180 */
181
182 //Q 13. If-Else Statement:
183 //What will be the output of the following code?
184 int x = 10;
185 if (x > 5)
186 printf("A");
187 else if (x > 7)
188 printf("B");
189 else
190 printf("C");
191
192 /**
193 Output: A
194 */
195
196 //Q 14. Switch Case:
197 //What will be the output of the following code?
198 char grade = 'B';

```

```
199  switch (grade) {
200  case 'A':
201  printf("Excellent");
202  break;
203  case 'B':
204  printf("Good");
205  break;
206  case 'C':
207  printf("Average");
208  break;
209  default:
210  printf("Invalid grade");
211  }
212  /**
213  Output: Good
214  */
```