

```
C diff_triangles.c > main()
1 // Q19: Write a program to classify a triangle as Equilateral, Isosceles, or Scalene based on its side lengths.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 3 3 3
7 Output 1:
8 Equilateral
9
10 Input 2:
11 3 3 4
12 Output 2:
13 Isosceles
14
15 Input 3:
16 2 3 4
17 Output 3:
18 Scalene
19
20 */
21
22 #include <stdio.h>
23 int main()
24 {
25     int x, y, z;
26     printf("enter the side =\n");
27     scanf("%d %d %d", &x, &y, &z);
28
29     if (x + y <= z || y + z <= x || z + x <= y)
30     {
31         printf("NOT A TRIANGLE\n");
32     }
33     else if (x == y && y == z && z == x)
34     {
35         printf("THIS IS AN EQUILATERAL TRIANGLE\n");
36     }
37     else if (x == y || y == z || z == x)
38     {
39         printf("THIS IS AN ISOSCELES TRIANGLE\n");
40     }
41     else
42     {
43         printf("THIS IS A SCALENE TRIANGLE\n");
44     }
45     return 0;
46 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\diff_triangles.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
enter the side =
3 3 3
THIS IS AN EQUILATERAL TRIANGLE
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\diff_triangles.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
enter the side =
3 3 4
THIS IS AN ISOSCELES TRIANGLE
PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\diff_triangles.c
PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe
enter the side =
2 3 4
THIS IS A SCALENE TRIANGLE
PS C:\Users\drago\OneDrive\Desktop\C H.W> █
```

C day10_q20.c > ⚙ main()

```
1 // Q20: Write a program to display the day of the week based on a number (1-7) using switch-case.
2
3 /*
4 Sample Test Cases:
5 Input 1:
6 1
7 Output 1:
8 Monday
9
10 Input 2:
11 5
12 Output 2:
13 Friday
14 */
15
16
17 #include <stdio.h>
18
19 int main() {
20     int day;
21     scanf("%d", &day);
22     switch(day) {
23         case 1: printf("Monday\n"); break;
24         case 2: printf("Tuesday\n"); break;
25         case 3: printf("Wednesday\n"); break;
26         case 4: printf("Thursday\n"); break;
27         case 5: printf("Friday\n"); break;
28         case 6: printf("Saturday\n"); break;
29         case 7: printf("Sunday\n"); break;
30         default: printf("Invalid day\n");
31     }
32     return 0;
33 }
34 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day10_q20.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

1

Monday

PS C:\Users\drago\OneDrive\Desktop\C H.W> gcc .\day10_q20.c

PS C:\Users\drago\OneDrive\Desktop\C H.W> ./a.exe

5

Friday

PS C:\Users\drago\OneDrive\Desktop\C H.W> █