

EED1005 Introduction to Programming

Laboratory Quiz 1

Groups D-E-F

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Q1 Draw the flowchart of the C program that prints the result given in Table 1.

01	02	03	04	05	06	07	08	09
02	04	06	08	10	12	14	16	18
03	06	09	12	15	18	21	24	27
04	08	12	16	20	24	28	32	36
05	10	15	20	25	30	35	40	45
06	12	18	24	30	36	42	48	56
07	14	21	28	35	42	49	56	63
08	16	24	32	40	48	56	64	72
09	18	27	36	45	54	63	72	81

Table 1: Output of the C program for *Q1*.

Q2 Fill in the blanks when the C program given in Listing 1 is executed.

```
1 #include <stdio.h>
2
3 int main(void)
4 {
5     int i = 10;
6     float j = 15.;
7     double k = 20.;
8
9     printf( "Output 1: %d\n", i++ );
10    printf( "Output 2: %lf\n", ++k );
11    printf( "Output 3: %lf\n", i / j * k + (1 / (double)j + 1) );
12
13    i += 1;
14
15    printf("Output 4: %d\n", i++ + ++i);
16    printf("Output 5: %d\n", i % 5 / 2 + 3 * 10);
17    printf("Output 6: %lf\n", (double)(j / (int)k));
18    return 0;
19 }
```

Listing 1: C program for Q2.

Output1 = -----

Output2 = -----

Output3 = -----

Output4 = -----

Output5 = -----

Output6 = -----