




Week 7

Q1)

main.c			Share	Run	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 6 int numbers[9]; 7 int sum=0; 8 9 for (int i=0;i<9;i++) { 10 printf("Enter a number: "); 11 scanf("%d", &numbers[i]); 12 sum += numbers[i]; 13 } 14 printf("%d", sum); 15 return 0; 16 }</pre>					<pre>/tmp/hMuD5SVo9d.o Enter a number: 2 Enter a number: 3 Enter a number: 4 Enter a number: 5 Enter a number: 6 Enter a number: 7 Enter a number: 8 Enter a number: 9 Enter a number: 10 54 === Code Execution Successful ===</pre>

Q2)

main.c	   Share	Run	Output
<pre>1 // Online C compiler to run C program online 2 #include <stdio.h> 3 4 int main() { 5 6 int numbers[9]; 7 int abc; 8 9 for (int i=0; i<9; i++) { 10 printf("Enter a number: "); 11 scanf("%d", &numbers[i]); 12 } 13 14 for (int i=8; i>=0; i--) { 15 abc = numbers[i]; 16 printf("%d ", abc); 17 } 18 return 0; 19 }</pre>			<pre>/tmp/DewEYn1dh4.o Enter a number: 2 Enter a number: 3 Enter a number: 4 Enter a number: 5 Enter a number: 6 Enter a number: 7 Enter a number: 8 Enter a number: 9 Enter a number: 10 10 9 8 7 6 5 4 3 2 === Code Execution Successful ===</pre>

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Q3)

main.c	Run	Output
<pre>3 int main() { 4 int startnum; 5 int numbers[8]; 6 int sum=0; 7 printf("Enter a number: "); 8 scanf("%d", &startnum); 9 int min = startnum; 10 int max = startnum; 11 for (int i=0;i<8;i++) { 12 printf("Enter a number: "); 13 scanf("%d", &numbers[i]); 14 if (numbers[i]<min) { 15 min=numbers[i]; 16 } 17 if (numbers[i]>max) { 18 max=numbers[i]; 19 } 20 } 21 printf("\nMinimum Number = %d", min); 22 printf("\nMaximum Number = %d", max);</pre>	<div>Run</div>	<pre>/tmp/JdGwaJ7LTc.o Enter a number: 2 Enter a number: 56 Enter a number: 78 Enter a number: 43 Enter a number: 1 Enter a number: 49 Enter a number: 90 Enter a number: 97 Enter a number: 28 Minimum Number = 1 Maximum Number = 97 === Code Execution Successful ===</pre>

Q4)

main.c			Share	Run	Output
<pre>4 ▾ int main() { 5 int i, input; 6 int found = 0; 7 8 printf("Enter how many inputs you need: "); 9 scanf("%d", &input); 10 11 int num[input]; 12 13 ▾ for (i = 0; i < input; i++){ 14 printf("Number %d: ", i + 1); 15 scanf("%d", &num[i]); 16 } 17 18 int max = num[0]; 19 20 ▾ for (i = 1; i < input; i++){ 21 ▾ if (num[i] > max) { 22 max = num[i]; 23 }</pre>	<pre>^ /tmp/PS5bUFHnBE.o Enter how many inputs you need: 6 Number 1: 2 Number 2: 3 Number 3: 2 Number 4: 5 Number 5: 4 Number 6: 3 Numbers occurring more than once: 2 3 === Code Execution Successful ===</pre>				

```
26     int countarr[max + 1];
27
28     for (i = 0; i <= max; i++){
29         countarr[i] = 0;
30     }
31
32     for (i = 0; i < input; i++){
33         countarr[num[i]] += 1;
34     }
35
36     int numfound[max+1];
37
38     printf("Numbers occurring more than once: ");
39     for (i = 0; i <= max; i++){
40         if (countarr[i] > 1) {
41             printf("%d ", i);
42             found = 1;
43         }
44     }
45
```