

main.c



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Output

```
1 //DAY 32
2 //Q63
3 #include <stdio.h>
4 int main() {
5     int arr1[100], arr2[100], merged[200];
6     int n1, n2, i, j, k;
7
8     printf("Enter the number of elements in first array: ");
9     scanf("%d", &n1);
10    printf("Enter %d elements:\n", n1);
11    for(i = 0; i < n1; i++) {
12        scanf("%d", &arr1[i]);
13    }
14
15    printf("Enter the number of elements in second array: ");
16    scanf("%d", &n2);
17    printf("Enter %d elements:\n", n2);
18    for(i = 0; i < n2; i++) {
19        scanf("%d", &arr2[i]);
20    }
21
22    k = 0;
23    for(i = 0; i < n1; i++) {
24        merged[k++] = arr1[i];
25    }
26    for(j = 0; j < n2; j++) {
27        merged[k++] = arr2[j];
28    }
29
30    printf("Merged array:\n");
31    for(i = 0; i < k; i++) {
32        printf("%d ", merged[i]);
33    }
34    return 0;
```

```
Enter the number of elements in first array: 3
Enter 3 elements:
1 2 3
Enter the number of elements in second array: 2
Enter 2 elements:
4 5
Merged array:
1 2 3 4 5
```

=== Code Execution Successful ===

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Output

```
1 //DAY 32
2 //Q64
3 #include <stdio.h>
4 int main() {
5     long long num;
6     int count[10] = {0}; // To count occurrences of digits 0-9
7     int digit, maxDigit = 0, maxCount = 0;
8
9     printf("Enter an integer: ");
10    scanf("%lld", &num);
11
12    if(num < 0)
13        num = -num;
14
15    while(num > 0) {
16        digit = num % 10;
17        count[digit]++;
18        num /= 10;
19    }
20
21    for(int i = 0; i < 10; i++) {
22        if(count[i] > maxCount) {
23            maxCount = count[i];
24            maxDigit = i;
25        }
26    }
27    printf("The digit that occurs the most is %d (appears %d times).\n",
28           maxDigit, maxCount);
29    return 0;
30 }
```

Enter an integer: 112233
The digit that occurs the most is 1 (appears 2 times).

=== Code Execution Successful ===