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//1. Program to find largest and smallest element in array
#include <stdio.h>

void main (){
    int arr[10], big, small, i;

    for (i = 0; i < 10; i++) {
        printf("Enter number %d: ", i+1);
        scanf("%d", &arr[i]);
    }

    big = arr[0];
    small = arr[0];

    for (i = 0; i < 5; i++){
        if (arr[i] > big) big = arr[i];
        if (arr[i] < small) small = arr[i];
    }

    printf("\nLargest element = %d\n", big);
    printf("Smallest element = %d\n", small);
}
```

```
bhargav@bhargav:~/Documents/Studies/C$ gcc compare-array.c -o compare-array
bhargav@bhargav:~/Documents/Studies/C$ ./compare-array
Enter number 1: 1
Enter number 2: 0
Enter number 3: -9
Enter number 4: 14
Enter number 5: 6

Largest element = 14
Smallest element = -9
```

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//2. Program to find even, odd, positive and negative elements in an array
#include <stdio.h>

void main(){

    int pos, neg, even, odd, i;
    int arr[5];
    pos = 0;
    neg = 0;
    even = 0;
    odd = 0;

    for (i = 0; i < 5; i++) {
        printf("Enter number %d: ", i+1);
        scanf("%d", &arr[i]);

        if (arr[i] >= 0) pos++;
        else neg++;

        if (arr[i] % 2 == 0) even++;
        else odd++;
    }
    printf("\nEven Count = %d", even);
    printf("\nOdd Count = %d", odd);
    printf("\nPositive Count = %d", pos);
    printf("\nNegative Count = %d\n", neg);
}
```

```
bhargav@bhargav:~/Documents/Studies/C$ gcc array.c -o array
bhargav@bhargav:~/Documents/Studies/C$ ./array
Enter number 1: 5
Enter number 2: 4
Enter number 3: -1
Enter number 4: 3
Enter number 5: 0

Even Count = 2
Odd Count = 3
Positive Count = 4
Negative Count = 1
```

```
//3. Program to print array in reverse and copy it to another array
#include <stdio.h>

void main (){
    int a[3], b[3], i, j=2;

    for (i = 0; i < 3; i++) {
        printf("Enter number %d: ", i+1);
        scanf("%d", &a[i]);
        b[j--] = a[i];
    }

    printf("\nArray in reverse :\n");

    for (i = 0; i < 3; i++) printf("%d\n", b[i]);
}
```

```
bhargav@bhargav:~/Documents/Studies/C$ gcc array-rev.c -o array-rev
bhargav@bhargav:~/Documents/Studies/C$ ./array-rev
Enter number 1: 10
Enter number 2: 20
Enter number 3: 30

Array in reverse :
30
20
10
```