

Array problem 6:

Count the number of occurrences:

```
#include <stdio.h>
```

```
int main() {occurrences
```

```
    int n, x, i;
```

```
    printf("Enter the size of the sorted array: ");
```

```
    scanf("%d", &n);
```

```
    int arr[n];
```

```
    printf("Enter the elements of the sorted array:\n");
```

```
    for (i = 0; i < n; i++) {
```

```
        scanf("%d", &arr[i]);
```

```
    }
```

```
    printf("Enter the number to find occurrences: ");
```

```
    scanf("%d", &x);
```

```
    int count = 0;
```

```
    for (i = 0; i < n; i++) {
```

```
        if (arr[i] == x) {
```

```
            count++;
```

```
        }
```

```
}  
printf("Number of occurrences of %d: %d\n", x, count);  
  
return 0;  
}
```