

Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

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

```
#define MAXSIZE 10
```

```
void main()
```

```
{
```

```
    int array[MAXSIZE];
```

```
    int i, j, num, temp, c=0;
```

```
    printf("Enter the value of num \n");
```

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

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

```
    for (i = 0; i < num; i++)
```

```
    {
```

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

```
    }
```

```
    for (i = 0; i < num; i++)
```

```
    {
```

```
        for (j = 0; j < (num - i - 1); j++)
```

```
        {
```

```
            if (array[j] > array[j + 1])
```

```
            {
```

```
                temp = array[j];
```

```
                array[j] = array[j + 1];
```

```

        array[j + 1] = temp;

        c++;
    }

}

printf("Sorted array is...\n");

for (i = 0; i < num; i++)

{

    printf("%d\n", array[i]);

}

printf("Num of iteration %d",c);

}

```

The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The browser has several tabs open, including 'alvas-education-foundation/3rd', 'Online-coding-updates/README', and 'Online C Compiler - online editor'. The main content area displays the output of a C program. The program prompts the user to 'Enter the value of num' (5) and 'Enter the array elements' (20, 35, 15, 78, 02). It then prints 'Sorted array is...' followed by the sorted elements (2, 15, 20, 35, 78) and 'Num of iteration 6'. The program ends with the message '...Program finished with exit code 18' and 'Press ENTER to exit console.'.

```

input
Enter the value of num
5
Enter the array elements
20
35
15
78
02
Sorted array is...
2
15
20
35
78
Num of iteration 6
...Program finished with exit code 18
Press ENTER to exit console.

```