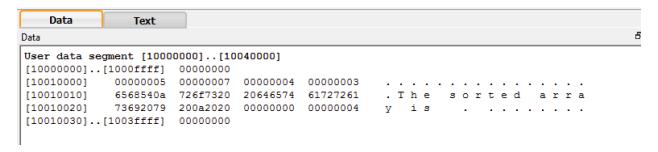
Lab2 Ivan Isakov

3)

The sorted array is 1234

5)



Data is allocated between 0x10000000 to 0x1000ffff, but the first variable starts at 0x10010000

$$msg = 4097 + 16 = 0x10010010$$

count = 4097 + 44 = 10010000 + 2C = 0x1001002C

6) The array starts of as [5, 7, 4, 3], it gets decremented by count to [4, 3, 2, 1] and then it sorts it.

```
8)
[4, 3, 2, 1]
[3, 4, 2, 1]
[3, 2, 4, 1]
[3, 2, 1, 4]
[3, 2, 1, 4]
[2, 3, 1, 4]
[2, 1, 3, 4]
[2, 1, 3, 4]
[2, 1, 3, 4]
[1, 2, 3, 4]
[1, 2, 3, 4]
[1, 2, 3, 4]
[1, 2, 3, 4]
[1, 2, 3, 4]
[1, 2, 3, 4]
```

So this is a sorting algorithm

The sorted array is 0127 The sorted array is 12345678