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EC 413

Lab2 Answers

1. The output of #3: “The sorted array is 1234.”
2. The data starts at memory location 400014.
   1. Address of variable “msg”: 10010000.
   2. Address of variable “count”: 10010010.
3. The original value of array is 5,7,4,3 which was given in the file. After the program went through the sort loop the value of array became 4,3,2,1.
4. At the 1st break point -> 4,3,2,1.

2nd) 3, 4, 2, 1

3rd) 3, 2, 1, 4

4th) 3, 2, 1, 4

5th) 2, 3, 1, 4

6th) 2, 1, 3, 4

7th) 2, 1, 3, 4

8th) 2, 1, 3, 4

9th) 1, 2, 3, 4

10th) 1, 2, 3, 4

1. At the end of the break point the value of array becomes 0,1,2,7.
2. In order to sort 8 numbers, we put
   1. .word (5, 7, 4, 3, 1, 2, 6, 8).
   2. Count : .word becomes 8 instead of 4.
   3. Then, the final array values of the changed program will be 1, 2, 3, 4, 5, 6, 7, 8.