IDMSOA01

– Selection sort algorithm is used to sort the array A={23,78,45,8,32,56} in the ascending order. What are the items of A after 03 sort pass?

Select one:

- A={8,32,23,45,56,78}
- A={23,32,8,45,56,78}
- A={78,45,56,23,32,8}
- A={78,45,56,8,32,23}

IDMSOA02

– Insertion sort algorithm is used to sort the array A={23,78,45,8,32,56} in the ascending order. What are the items of A after 03 sort pass?

Select one:

- A={45,56,78,32,23,8}
- A={45,56,78,23,32,8}
- A={8,23,45,56,32,78}
- A={8,23,45,78,32,56}

IDMSOA03

– Bubble sort algorithm is used to sort the array A={23,78,45,8,32,56} in the ascending order. What are the items of A after 03 sort pass?

Select one:

- A={8,23,32,45,56,78}
- A={23,45,8,32,56,78}
- A={8,32,23,45,56,78}
- A={23,32,78,56,45,8}

IDMSOA06

– A sorting algorithm is used to sort the array A={83,8,12,72,71,65,5}. The item of A in each

sort pass are listed below. Which sorting algorithm is used?

Pass 1:	8	12	72	71	65	5	83
Pass 2:	8	12	71	65	5	72	83
Pass 3:	8	12	65	5	71	72	83
Pass 4:	8	12	5	65	71	72	83
Pass 5:	8	5	12	65	71	72	83
Pass 6:	5	8	12	65	71	72	83
Pass 7:	5	8	12	65	71	72	83

Select one:

- Selection sort
- Merge sort
- Bubble sort
- Insertion sort

IDMSOA08

– Which array represents a Min-Heap?

Select one:

- A={2,5,9,22,10,13,12,8,50}
- A={50,22,13,12,10,8,9,5,2}
- A={2,5,9,8,10,13,12,22,50}
- A={9,5,2,8,10,13,12,22,50}

IDMSOA09

– Which array represents a Max-Heap?

Select one:

- A={78,56,45,32,23,8,15}
- A={8,15,23,32,56,45,78}
- A={78,23,15,56,32,8,45}
- A={8,78,56,32,15,23,45}

IDMSOA10

– An array A contains integer item in the range 0 to 5. A={1,2,5,3,2}. Counting sort algorithm is used to sort A. What is the content of the counting array C before we used the information form C to creates the sorted result array B?

Select one:

- C={1,1,5,5,3,2}.
- C={1,2,5,3,2,5}
- C={0,1,2,1,0,1}
- C={0,1,3,4,4,5}

IDMSOA11

– An array A contains integer items, each item has 03 digits. A={170,145,275,900,802}. Radix sort algorithm is used to sort A. What is the content of A after the second sort pass?

Select one:

- A={900,802,145,170,275}
- A={145,170,275,802,900}
- A={900,802,275,170,145}
- A={145,900,170,802,275}.

IDMSOA12

– The Merge method in Merge sort algorithm is used to combine two sorted array A={3,27,38,43} and B={9,10,82}. What is the result array C?

Select one:

- C={3,82,9,43,10,38,27}
- C={3,27,38,43,9,10,82}
- C={3,9,10,27,38,43,82}
- C={9,10,82,3,27,38,43}

IDMSOA13

– Heap sort algorithm is used to sort the array A={15,19,10,7,17,16} in the ascending order (using a Max-Heap). What is the content of A after calling BuildHeap() method?

Select one:

- A={19,17,16,7,15,10}
- A={10,15,17,19,7,16}
- A={10,7,15,19,16,17}

A={19,10,17,7,15,16}