UNIT-2 DATA STRUCTURES & ALGORITHMS

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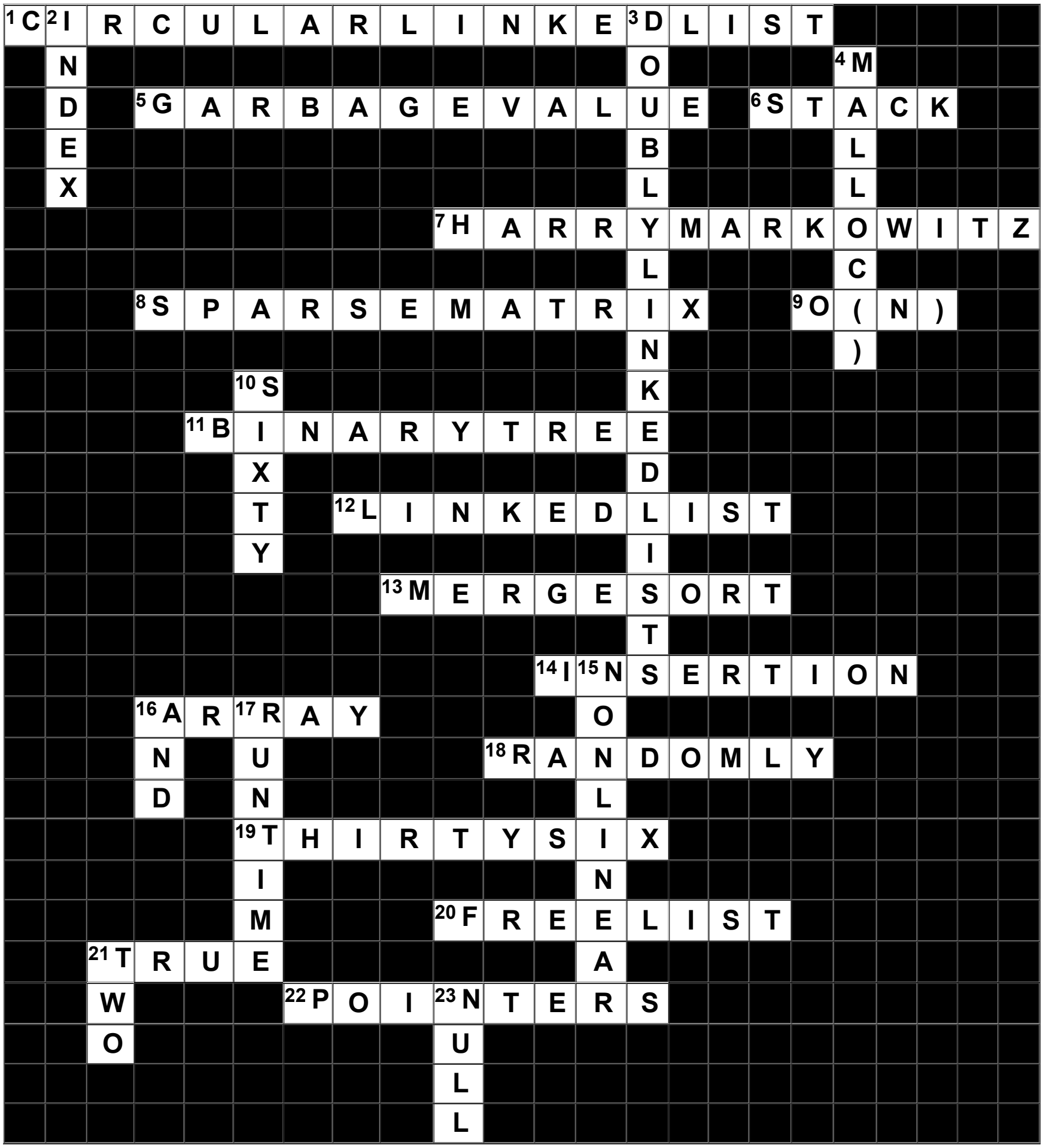

Across:

1 A linked list in which none of the nodes contains a NULL pointer is?

5 What is the output of the below code?

```
#include
int main()
{
int arr[5]={10,20,30,40,50};
printf("%d", arr[5]);

return 0;
}
```

6 Which data structure is required to convert the infix to prefix notation?

7 who coined the term sparse matrix?

8 Matrix which contain very few non-zero elements is known as _____

9 What is the time complexity of searching for an element in a circular linked list?

11 In what way the Symmetry Sparse Matrix can be stored efficiently?

12 Polynomial addition can be implemented using _____

13 Which sorting algorithms is preferred to sort a linked list?

14 _____ refers to addition of element to the array.

16 _____ is a collection of items stored at contiguous memory locations.

18 Elements in an array are accessed _____

19 The size of int arr[9] assuming that int is of 4 bytes?

20 Default list in cursor implementation is called_____.

21 Is O(n) the Worst case Time Complexity for addition of two Sparse Matrix(T/F)?

22 In a linked list successive elements are connected by _____

Down:

2 searching for an array element based on its value or _____

3 _____are useful for playing video and sound files with “rewind” and “instant replay”

4 _____ can be used to allocate a block of memory which can simulate an array.

10 Assuming int is of 4bytes, what is the size of int arr[15];?

15 Graphs are the examples for _____Data structure.

16 Multiplication / Division follow which operation?

17 When does the ArrayIndexOutOfBoundsException occur?

21 Data Structure are classified into _____types.

23 The last node of the linked list contains pointer to _____