Multiple Choice Questions

In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is

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(A) log n with base 2
(B) n*n
(C) n* log n with base 2
(D) n
RIGHT ANSWER: (D)
which of the following points is/are true about Linked List data structure when it is compared with array
(A) It is easy to insert and delete elements in Linked List
(B) Random access is not allowed in a typical implementation of Linked Lists
(C) The size of array has to be pre-decided, linked lists can change their size any time.
(D) Arrays have better cache locality that can make them better in terms of performance.
(E) All of these
RIGHT ANSWRT: (E)
What does the following function do for a given Linked List with first node as head?
abc(head)
 if head == NULL:
  return
 abc(head.next);
 print(head.data)
(A) It will print all element of list
(B) It will print all element of list in reverse order
(C) It will print alternative element of the list
(D) It will print nothing
RIGHT ANSWER: (B)
Which of these is not an application of linked list?
(A) Random Access of elements
(B) For separate chaining in hash-tables
(C) To implement non-binary trees
(D) To implement file systems
RIGHT ANSWER: (A)
What is output of the following code
p = 'Jaipur'
q = input('Enter value ')
#say Jaipur
print(p is q, end = ' ')
print(p == q, end = ' ')
print(id(p) == id(q))
```

- (A) False True False
- (B) False True True
- (C) True False True
- (D) True False False

RIGHT ANSWER: (A)