

POLL TEST

Which of the following strategies do not directly involve recursion?

- (A) Dynamic Programming
- (B) Backtracking
- (C) Divide and conquer
- (D) None of the above

RIGHT ANSWER: (A)

What is running time of following code fragment-

```
for i in range(1,N+1):
    for j in range(1,i+1):
        for i in range(i,j+1):
            sum+=1
for p in range(1,N*N+1):
    for q in range(1,p+1):
        sum-=1
```

- (A) $O(N \text{ raised to the power } 2)$
- (B) $O(N \text{ raised to the power } 3)$
- (C) $O(N \text{ raised to the power } 4)$
- (D) None of the above

RIGHT ANSWER: (C)

Which of the following data structure require more than constant average running time insertion operation-

- (A) Hash table
- (B) Queue
- (C) Search Tree
- (D) Stack

RIGHT ANSWER: (C)

What will be the output of the following Python code?

```
class test:
    def __init__(self):
        self.variable = 'Old'
        self.Change(self.variable)
    def Change(self, var):
        var = 'New'
obj=test()
print(obj.variable)
```

- (A) Error because function change can't be called in the `__init__` function
- (B) 'New' is printed
- (C) 'Old' is printed
- (D) Nothing is printed

RIGHT ANSWER: (C)

Which of the following code is to check is string is str palindrome or not

- (A) `str == str[::-1]`
- (B) `str = [0:len(str):-1]`
- (C) `str = [len(str) - 1::-1]`
- (D) Both (A) & (B)

RIGHT ANSWER: (A)