

Review Test 5- Data Structures and Algorithm

Max: Marks-10

Time: 10 min

pranitt1398@gmail.com [Switch account](#)



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* Required

Email *

pranitt1398@gmail.com

Name *

Pranit Tondvalkar

PRN *

220960920085



In recursion when inside the parameter itself we passed the function then it * 1 point is called

- ☒ nested recursion.
- ☐ Indirect Recursion
- ☐ Tail Recursion
- ☐ Tree Recursion

Recursion is similar to which of the following? *

1 point

- ☐ Switch Case
- ☒ Loop
- ☐ If-else
- ☐ None



What will be the value returned by the following function, when it is called with a value **15** ? 2 points

```
int abc(int n)
{
    if ((n/2) != 0)
        return (abc(n/2) * 10 + n%2);
    else return 1;
}
```

- ☐ 1011
- ☐ 0111
- ☐ 0101
- ☒ 1111

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```
int something(int number)
```

2 points

```
{
```

```
    if(number <= 0)
```

```
        return 1;
```

```
    else
```

```
        return number * something(number-1);
```

```
}
```

```
something(4);
```

☒ 12

☐ 24

☐ 1

☐ 0

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```
int sum(int n) {
```

*

2 points

```
if (n==0)
```

```
return n;
```

```
else
```

```
return n + sum(n-1);
```

```
}
```

What will be the output of sum(8).

☐ 40

☐ 36

☐ 8

☒ 15



```
fun1()
```

2 points

```
{
```

```
// write some code
```

```
fun2()
```

```
}
```

```
fun2()
```

```
{
```

```
// write some code
```

```
fun3()
```

```
// write some code
```

```
}
```

```
fun3()
```

```
{
```

```
// write some code
```

```
fun1()
```

```
}
```

which Recursion Structure shown above



Direct Recursion



Indirect Recursion



Tail Recursion



Tree Recursion

Clear selection



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