

# RECURSION PROJECT

Show the output of each block of code below. ( 100 points )

1. What is output by the call fun (3) ?

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```
void fun(int x)
{
    if(x>=1){
        System.out.print(x);
        fun(x-1);
    }
}
```

2. What is output by the call fun (3) ?

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```
void fun(int x)
{
    if(x<1)
    {
        System.out.print(x);
    }else
    {
        System.out.print(x);
        fun(x-1);
    }
}
```

3. What is returned by fun (3) ?

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```
int fun(int x)
{
    if (x<1)
        return x;
    else
        return x + fun(x-1);
}
```

4. What is returned by fun (3, 6) ?

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```
int fun( int x, int y)
{
    if( y == 2)
        return x;
    else
        return fun( x, y - 1) + x;
}
```

5. What is returned by fun (4, 2) ?

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