

Erlang and message passing

What does $f(5)$ return?

$f(0) \rightarrow 0;$

$f(N) \rightarrow N + f(N-1).$

1. 0
2. 5
3. 15
4. the factorial of 5

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What does `g([a,b,c,d,e,f,g])` return?

`g([])` -> `[]`;

`g([X])` -> `[X]`;

`g([X|[Y|T]])` -> `[X|g(T)]`.

1. `[]`
2. `[a]`
3. `[a,b,c,d,e,f,g]`
4. `[a,c,e,g]`

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What do $h(\{3,3\})$ and $h(\{4,3\})$ return?

$h(\{3,B\}) \rightarrow B;$

$h(\{-,3\}) \rightarrow 3;$

$h(\{-,-\}) \rightarrow 4.$

1. 3 and 3
2. 3 and 4
3. 4 and 3
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What does `k([])` return?

```
k({-, -, -}) -> [3, 3, 3];
```

```
k(X) ->
```

```
  case X of
```

```
    {A, B} -> A + B;
```

```
    _      -> 0
```

```
  end.
```

1. 0
2. [3, 3, 3]
3. It throws an exception
4. {0, 0}

What does `k([])` return?

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k({-, -, -}) -> [3, 3, 3];
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k(X) ->
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  case X of
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    {A, B} -> A + B;
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    _      -> 0
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```
  end.
```

1. 0
2. [3, 3, 3]
3. It throws an exception
4. {0, 0}