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UNIVERSIDAD  
FACULTAD  
CARRERA  
SEMESTRE 2026-1  
MATERIA

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TÍTULO

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alumno1	apellido1	00001
alumno2	apellido2	00002
alumno3	apellido3	00003
alumno4	apellido4	00004

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profesor1	apellido5	Profesor
profesor2	apellido6	Adjunto
profesor3	apellido7	Laboratorio

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# Título

## Subtítulo

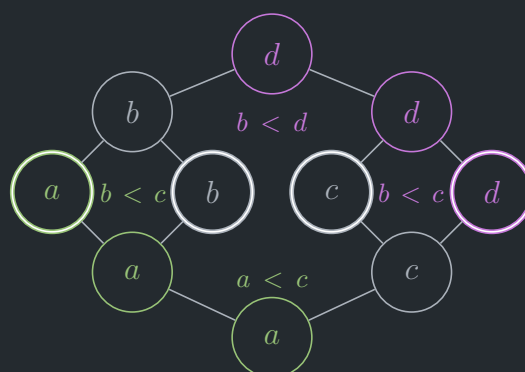
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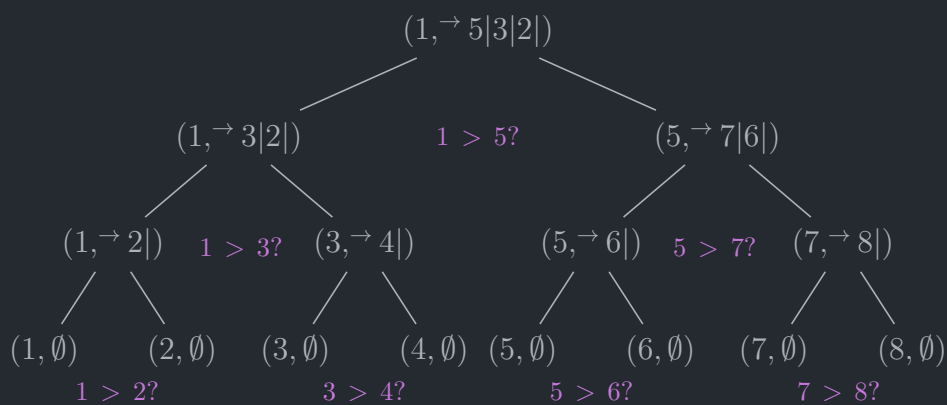
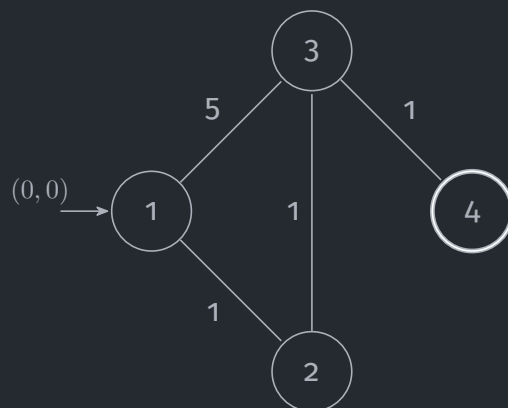
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```
1 factorial :: Int -> Int
2 factorial 0 = 1
3 factorial n = n * factorial (n - 1)
4
5 main :: IO ()
6 main = do
7     putStrLn "Ingrese un número:"
8     input <- getLine
9     let num = read input :: Int
10    putStrLn $ "El factorial de " ++ show num ++ " es: " ++ show (factorial num)
```

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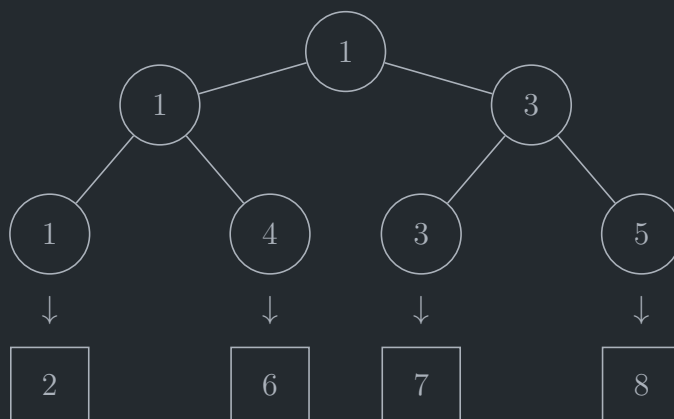
- ▷ Categoría 1
- ▷ Categoría 2
- ▷ Categoría 3
  - ◇ Subcategoría 1
  - ◇ Subcategoría 2
  - ◇ Subcategoría 3
- ▷ Categoría 4
- ▷ Categoría 5
- ▷ Categoría 6



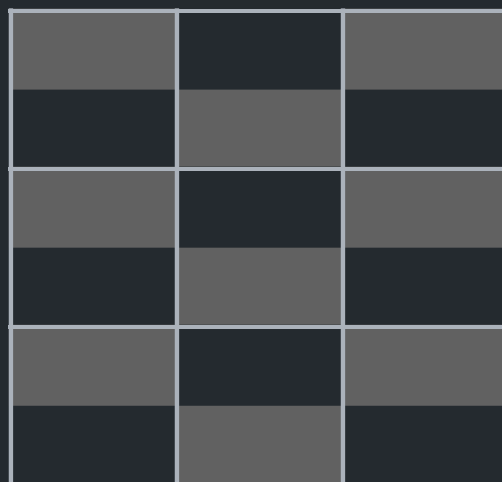
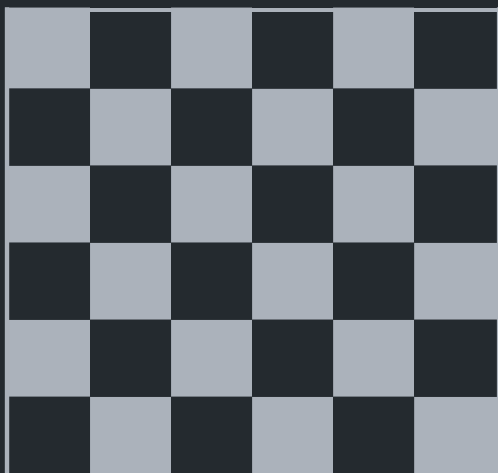
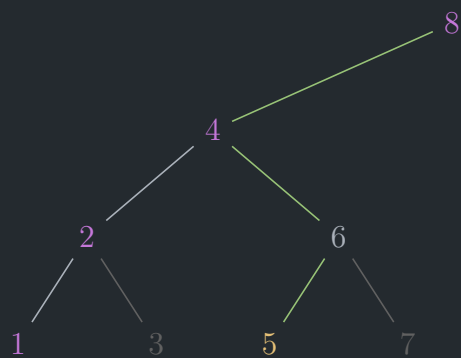


5
3
2

$$\begin{aligned}
 \frac{n}{2^1} + \frac{n}{2^2} + \dots + \frac{n}{2^p} &= \left( \frac{n}{2^0} + \frac{n}{2^1} + \frac{n}{2^2} + \dots + \frac{n}{2^p} \right) - \frac{n}{2^0} \\
 &= \left( \frac{n}{1} + \frac{n}{2^1} + \frac{n}{2^2} + \dots + \frac{n}{2^p} \right) - \frac{n}{1} \\
 &= \left( n + \frac{n}{2^1} + \frac{n}{2^2} + \dots + \frac{n}{2^p} \right) - n \\
 &= \left( \sum_{i=0}^p \frac{n}{2^i} \right) - n \\
 &= n \left( \sum_{i=0}^p \frac{1}{2^i} \right) - n \\
 &= n(2 - 2^{-p}) - n \\
 &= n(2 - \frac{1}{2^p}) - n \\
 &= n(2 - \frac{1}{n}) \\
 &= 2n - \frac{n}{n} - n \\
 &= 2n - 1 - n \\
 &= n - 1
 \end{aligned}$$



1



		J	O	J	I
R	o	o	o	o	o
O	o	o	1	o	o
J	o	1	o	2	o
O	o	o	1	o	o

## Referencias

- [1] L. Lín Bing Jónsdóttir, et al. Falling Behind. Youtube Music. URL: <https://music.youtube.com/watch?v=Vj2VHNvkBPA&si=nf5MffY9k-ShZcxR>.