Universidad

Facultad

Carrera
Semestre 2026-1

Materia

Título

Alumno1	ID
Alumno2	ID
Alumno3	ID
Alumno4	ID

Docente1	Profesor
Docente2	Ayudante
Docente3	Laboratorio

29 de agosto de 2025

Título

Subtítulo

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```haskell
factorial :: Int -> Int
factorial 0 = 1
factorial n = n * factorial (n - 1)

main :: IO ()
main = do
  putStrLn "Ingrese un número:"
  input <- getLine
  let num = read input :: Int
  putStrLn $ "El factorial de " ++ show num ++ " es: " ++ show (factorial num)
```

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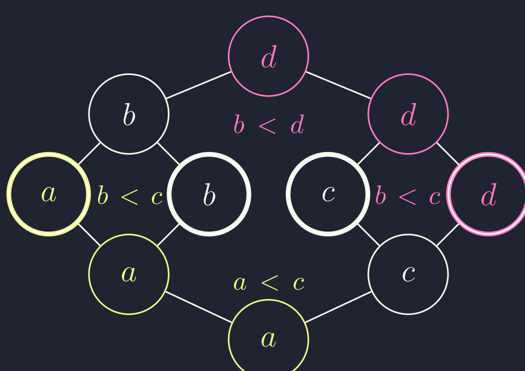
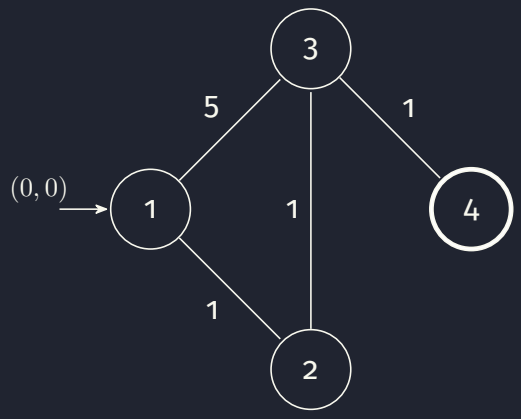
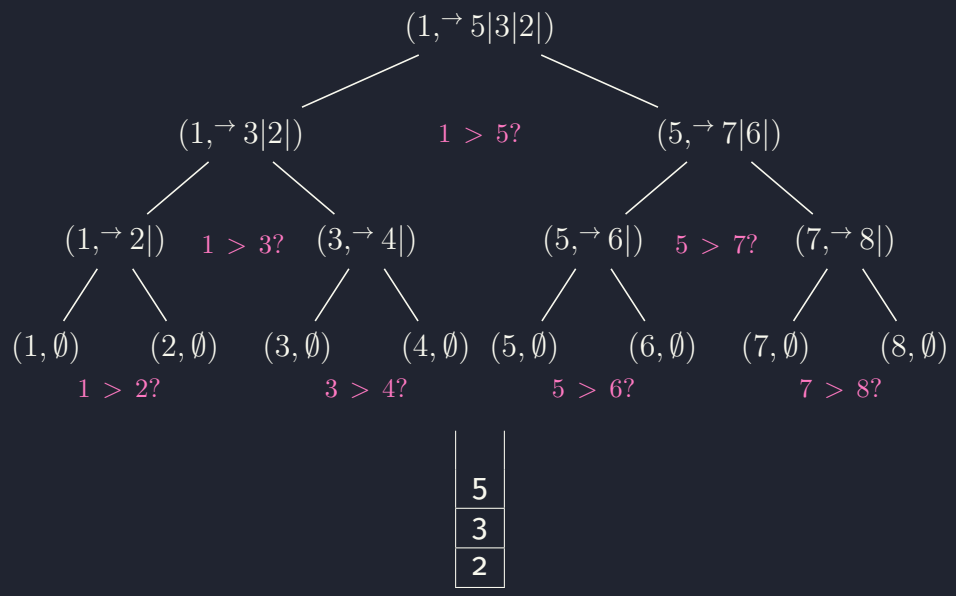
    - Subcategoría 3
- Categoría 4
- Categoría 5
- Categoría 6

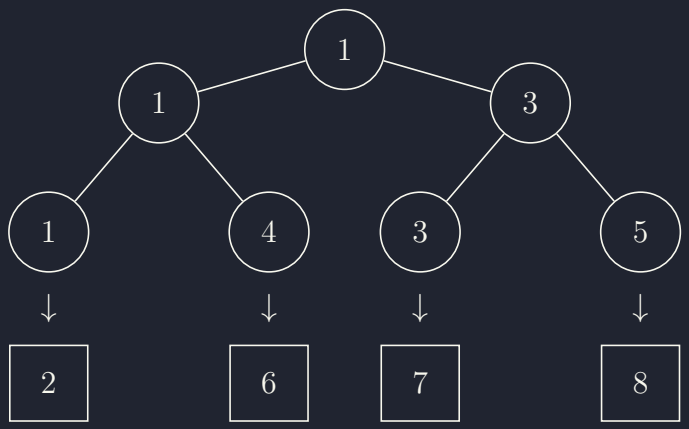


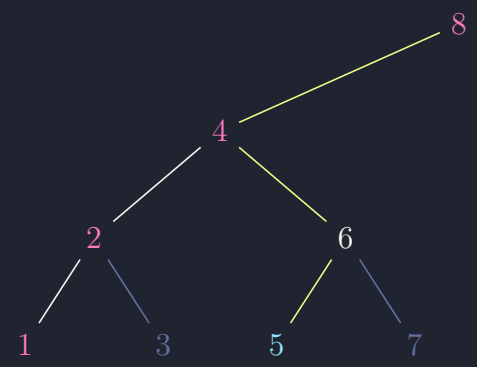

3
5
1
(0, 0)
1
1
4
1
2

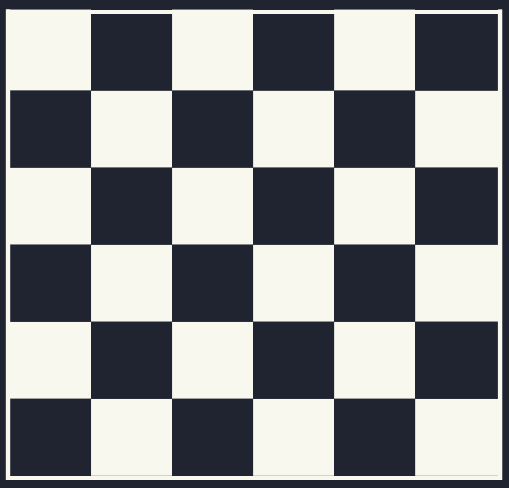

(1,→ 5|3|2|)
(1,→ 3|2|)
1 > 5?
(5,→ 7|6|)
(1,→ 2|)
1 > 3?
(3,→ 4|)
(5,→ 6|)
5 > 7?
(7,→ 8|)
(1, ∅)
(2, ∅)
(3, ∅)
(4, ∅)
(5, ∅)
(6, ∅)
(7, ∅)
(8, ∅)
1 > 2?
3 > 4?
5 > 6?
7 > 8?

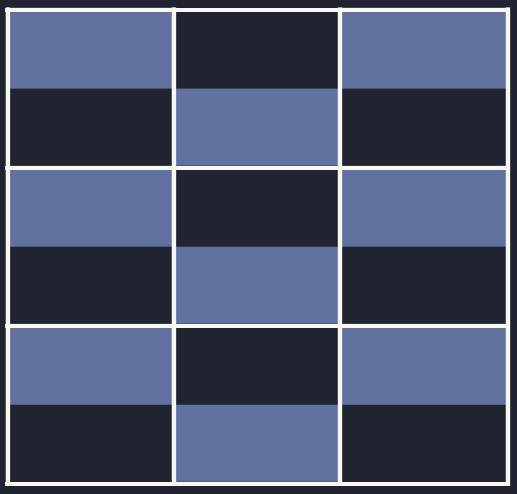
5
3
2

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









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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.