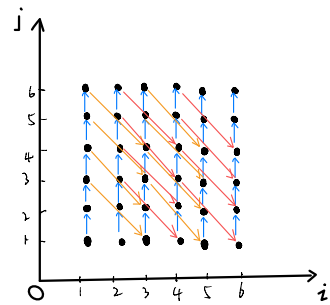
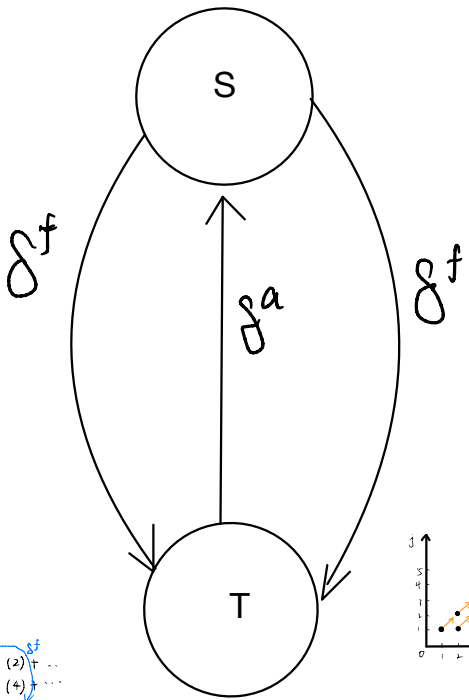




$i=1$
 $j=1 \quad A[5,1] = A[5,4] + 2$
 $2 \quad A[5,2] = A[10,4] + 2$
 $3 \quad A[5,5] = A[15,4] + 2$
 $4 \quad A[5,7] = A[20,4] + 2$

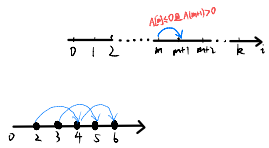
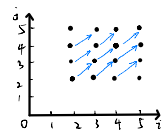
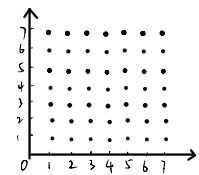
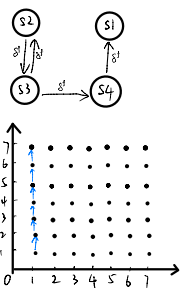
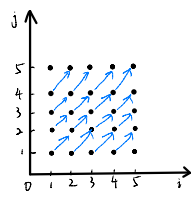
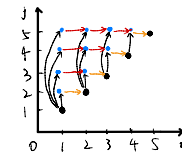
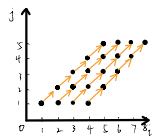
$i=6, j=4$
 $A(20,7) = A(20,9)$
 $(11,7)$
 $A(35,20) = A(35,14)$

$3i+2 = 5j$
 $2j-1 = i+3$
 $i = 2j-4$
 $3(2j-4) + 2 = 5j$
 $6j - 12 + 2 = 5j$
 $j = 10$
 $i = 16$
 $3i+2 = 5j$
 $j = \frac{3i+2}{5}$
 $i=1, 6, 11, 16$
 $j=1, 4, 7, 10$

$\begin{cases} 3i+2-5j > 0 \\ 2j-1-i-3 > 0 \end{cases} \Rightarrow \begin{cases} 3i+2-5j > 0 \\ 2j-i-4 > 0 \\ 6j-3i-12 > 0 \end{cases}$
 $j-10 > 0 \Rightarrow j > 10$
 $6i+4-10j > 0$
 $10j-20-5i > 0$
 $i-16 > 0 \Rightarrow i > 16$

$(11,11)$
 $(17,1)$

$2-1 \quad (6) = (2) + \dots$
 $3 \quad (8) = (4) + \dots$
 $4 \quad (10) = (6) + \dots$
 $5 \quad (12) = (8) + \dots$
 $6 \quad (14) = (10) + \dots$



$$\begin{matrix} 3 & 2 & 1 \\ 2 & 1 & 1 \\ 1 & 1 & 1 \end{matrix}$$

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$$f(n) = f(n-1) + f(n-2)$$

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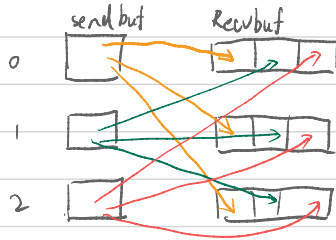
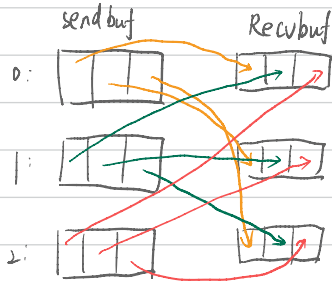
$$f(n) = f(n-1) + f(n-2)$$

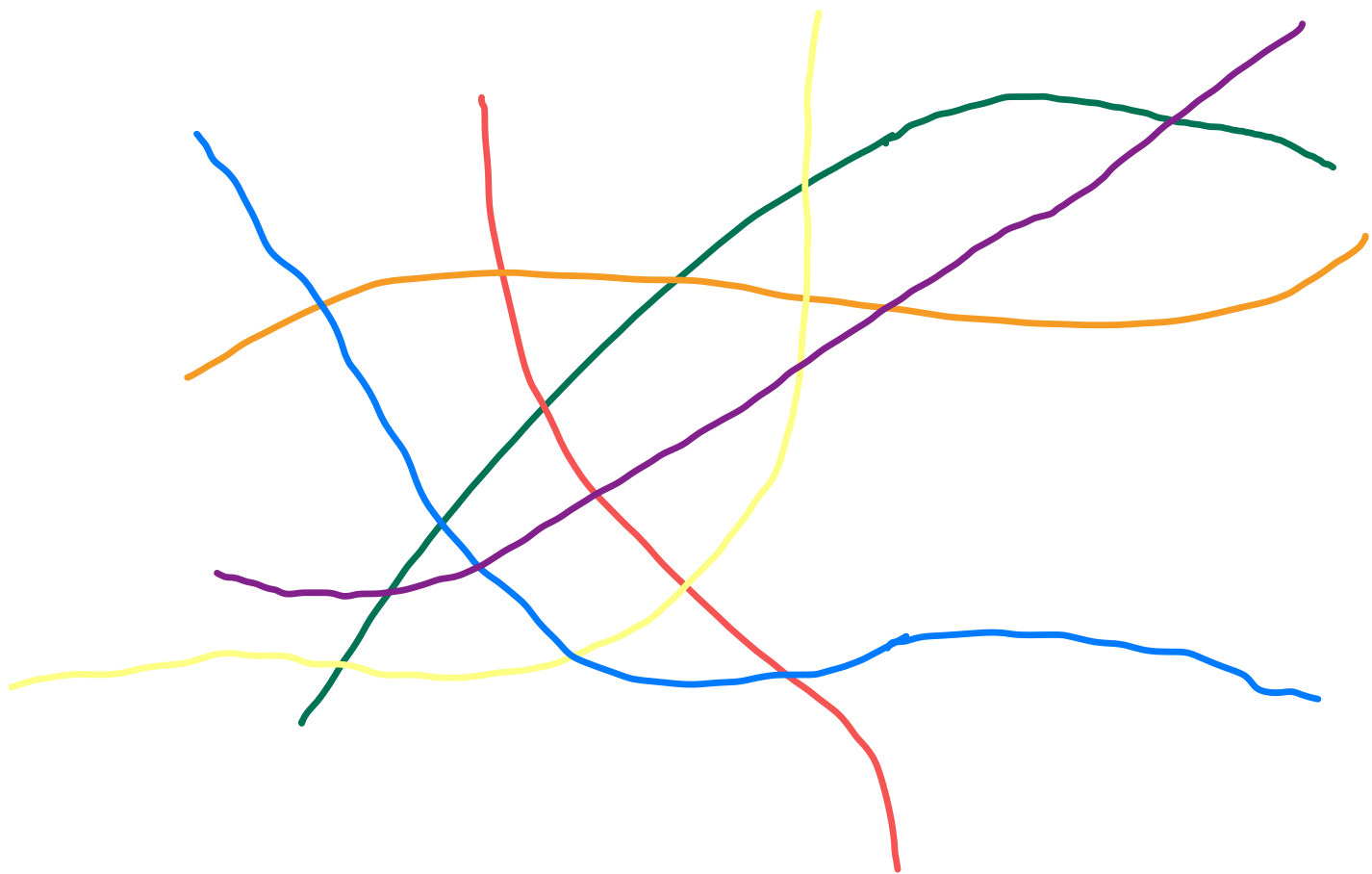
$$f(n) = f(n-1) + f(n-2)$$

$$f(n) = f(n-1) + f(n-2)$$

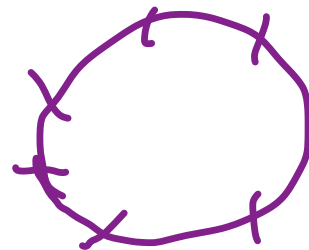
$$f(n) = f(n-1) + f(n-2)$$

$$f(n) = f(n-1) + f(n-2)$$





$$1 - \left(\frac{5}{6}\right)^4$$



$$5: \frac{1}{9}$$

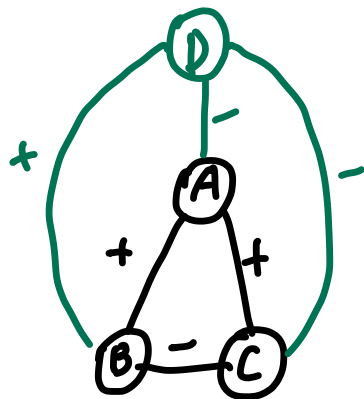
$$18: \frac{4}{9}$$

$$\frac{2}{n-1}$$

$$\left(\frac{8}{9}\right)^n$$

$$\left(\frac{5}{9}\right)^n$$

$$\frac{n-2}{n} \cdot \frac{2}{n-1} + \frac{2}{n} \cdot \frac{1}{n-1} = \frac{(n-1) \cdot 2}{n(n-1)} = \frac{2}{n}$$



$$\begin{aligned}
 & \alpha + (1-\alpha)(1-\beta)\alpha + (1-\alpha)^2(1-\beta)^2\alpha + \dots \\
 & (1-\alpha)\beta + (1-\alpha)^2(1-\beta)\beta + \dots \\
 & \alpha \cdot (1 + \beta + \beta^2 + \dots) = \alpha \cdot \frac{1}{1-\beta} \quad \frac{\beta}{\alpha + \beta - \alpha\beta} \\
 & = \alpha \cdot \frac{1}{1-(1-\alpha)(1-\beta)} = \frac{\alpha}{\alpha + \beta - \alpha\beta}
 \end{aligned}$$

$$P(x > a) = \frac{1}{2}$$

$$\begin{aligned}
 \int_a^{\frac{1}{2}} \frac{1}{8} x^2 &= \frac{1}{8} x^3 \Big|_a^{\frac{1}{2}} = \frac{1}{8} \left(\frac{1}{8} - a^3 \right) \\
 &= 1 - \frac{1}{8} a^3 = \frac{1}{2} \quad a = \sqrt[3]{4}
 \end{aligned}$$

