5.4.2 Exponential Ranking

$$\begin{cases} exp-rank(i) = \frac{1-e^{-i}}{c} \end{cases}$$

Individual	filness	Rank	PerFP	Psel Ex
A		O	0-1	0
В	4	1	0.4	0.422
C	5	2	ک.٥	0.578
Sum	(D		1-0	1.0

Solution Ocalculate C: make sure the sum of properbility equal to 1

$$C = \sum_{i=0}^{2} (-e^{-i}) = (-e^{0}) + (-e^{-1}) + (-e^{-2})$$

= 0+ 0.6321 + 0.8647 = 1.4988

@ calculate p

$$P(0) = \frac{1-e^{\circ}}{C} = 0$$

$$P(1) = \frac{1-e^1}{c} = \frac{0.6321}{1.4968} = 0.422$$

$$P(2) = \frac{1-e^2}{C} = \frac{0.8647}{1.4768} = 0.578$$