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Section - A

Design a $2^3 \times 2^3$ delta network.

Here, $a=2$, $b=2$ and $n=3$.

$$\text{For } x=1, \quad 2^{3-1} \times 2^{1-1} = 2^2 \times 2^0 = 4 \times 1 = 4$$

$$x=2, \quad 2^{3-2} \times 2^{2-1} = 2^1 \times 2^1 = 2 \times 2 = 4$$

$$x=3, \quad 2^{3-3} \times 2^{3-1} = 2^0 \times 2^2 = 1 \times 4 = 4$$

i	q_i	$S_{qc}(i)$
0	0	0
1	2	2
2	4	4
3	6	6
4	8	1
5	10	3
6	12	5
7	14	7

