

Matrix Multiplication Methol:

$$\begin{bmatrix}
\binom{3}{3} = 0 & 0 & 1 & -2 & -5 \\
2 & 0 & 3 & 0 & -3
\end{bmatrix}$$

$$\begin{bmatrix}
\binom{4}{2} = 0 & 0 & 1 & -2 & -5 \\
2 & 0 & 3 & 0 & -3
\end{bmatrix}$$

$$\begin{bmatrix}
3 & 1 & 0 & -1 & 8 \\
4 & 2 & 3 & 0 & -1
\end{bmatrix}$$

$$\begin{bmatrix}
4 & 2 & 3 & 0 & -1 \\
7 & 5 & 6 & 3 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
4 & 2 & 3 & 0 & -1 \\
7 & 5 & 6 & 3 & 0
\end{bmatrix}$$

Algorithm Fland - Warshall (z) = / par . -5 -5 -3 8 -3 -1 -

|        |     |    |   |   |      | ((1)  |    |   |   |      | 1   |
|--------|-----|----|---|---|------|-------|----|---|---|------|-----|
| n(3) = | 10  | 1  | 4 | 3 | -5 \ | D(4)= | 10 | 0 | 1 | -2 - | 5   |
| ν      | 2   | () | 3 | 2 | -3   |       | 2  | 0 | 3 | 0.   | 3 / |
|        | 13  | 11 | 0 | • | 8    |       | 3  | ) | 0 | -1 - | - 2 |
|        | 14  | 2  | 3 | 0 | 11   |       | 4  | 2 | 3 | 0 -  | -1  |
|        | 18  | 6  | 6 | 3 | 01   |       | 7  | 5 | 6 | 3    | 0/  |
|        | 1.0 | U  |   |   |      |       |    |   |   |      |     |