| +          | Hungarian method for finding oftimal solution                |
|------------|--|
|            | Step 1: Subtract the mallest number in each your from        |
|            | every number in that you. Repeat the same for each column.   |
|            | Step 2: Search for the now having exactly one kero. Box      |
|            | that cell and cross out all the reuses in that colourn.      |
|            | Repeat listit all sour and column are scanned.               |
|            | steps of w step 2 all the earnes are either based or engued  |
|            | and there is exactly one arrivariant in each low and columns |
|            | Trust was is the string william                              |
|            | Step 4: If the solution is not optimal, was the minimum      |
|            | number of lines to cover all the raises in the following     |
|            | way:   |
|            | i) Mark all unassigned rows.                                 |
|            | ") Mark all columns that have reso in the marked             |
|            | Lowy.  |
| _          | iii) Mark all sows that have assignments in the              |
|            | marked rollings.   |
|            | is Repeat till all sous of columns are marked whenever       |
| _          | horsible.  |
|            | y Draw lives through the unwarked rows and marked            |
| -          | columns.   |
|            | vi) lelect the smallest number from the uncoured             |
|            | cells. Subtract this from the uncourd cell and               |
| -          | add this to the cells on the intersection of the line        |
| -          | drawn. Repect step 2 to check for optimality,                |
|            |  |
| <b>y</b> . | IIMP   |
| -          | A 160 130 175 190 200  |
| 4          | B 135 120 139 160 175  |
| 1          | C 140 110 155 170 185  |
| -          | D 50 50 80 80 110  |
| 4          | E 55 85 70 80 105  |
|            |  |

