Task 2

Combination List for Traffic Signal Junction

set\_tsj\_mode(traffic\_light\_t \*A,traffic\_light\_t \*B,traffic\_light\_t \*C,traffic\_light\_t \*D)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Type Code** | **A** | **B** | **C** | **D** |
| 1 | 8 | 1 | 1 | 5 |
| 2 | 7 | 1 | 7 | 1 |
| 3 | 7 | 1 | 5 | 5 |
| 4 | 5 | 8 | 1 | 1 |
| 5 | 1 | 1 | 1 | 7 |
| 6 | 5 | 1 | 1 | 5 |
| 7 | 1 | 5 | 8 | 1 |
| 8 | 7 | 1 | 7 | 1 |
| 9 | 5 | 5 | 7 | 1 |
| 10 | 1 | 5 | 1 | 8 |
| 11 | 1 | 7 | 1 | 7 |
| 12 | 1 | 5 | 5 | 7 |
| 13 | 4 | 8 | 4 | 4 |
| 14 | 8 | 4 | 4 | 4 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 15 | 4 | 4 | 4 | 8 |
| 16 | 4 | 4 | 8 | 4 |
| 17 | 4 | 6 | 4 | 6 |
| 18 | 6 | 4 | 6 | 4 |

Two Lane Road

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Type Code** | **Maximum Density** | **Cycle No.** | **Condition** | **A** | **B** | **C** | **D** | **Description** |
| 1 | A | 1 |  | 8 | 1 | 1 | 5 |  |
| 2 | 2 | if C>D | 7 | 1 | 7 | 1 | if c>d |
| 3 | 3 | if C<=D | 7 | 1 | 5 | 5 | if c<=d |
| 4 | B | 1 |  | 5 | 8 | 1 | 1 |  |
| 5 | 2 | if D>A | 1 | 1 | 1 | 7 | if d>a |
| 6 | 3 | if D<=A | 5 | 1 | 1 | 5 | if d<=a |
| 7 | C | 1 | if A>C &  C>=(B or D) | 1 | 5 | 8 | 1 | either T/2 or 3T/4 |
| 8 |  | 3 | if A>B>D &  D>=C | 7 | 1 | 7 | 1 | either T/4 or 3T/4 |
| 9 |  | 4 | (A>D>B & B>=C)  if B>A | 5 | 5 | 7 | 1 | prefered |
| 10 | D | 1 |  | 1 | 5 | 1 | 8 |  |
| 11 |  | 2 | if (A>C>D) or  (A>B>C>D) | 1 | 7 | 1 | 7 |  |
| 12 |  | 3 | if (A>C>D) or  (A>B>C>D) | 1 | 5 | 5 | 7 |  |