/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* OPL 12.5.1.0 Data

\* Author: chetan.kc

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\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/

xtruck = 7;

ytruck = 9;

wtruck = 35;

nt=15;

np=20;

xDim=[3 2 2 2 4 3 3 5 3 2 2 5 3 3 3 4 3 2 4 3]; //dimension of the packet

yDim=[1 2 3 2 3 4 2 5 4 5 2 3 4 2 2 3 3 4 5 6];

wp=[10 17 20 10 20 13 15 10 13 15 10 20 30 15 18 10 14 15 23 14];

//SDM=[

// [0 1]

// [1 0]

// ];

// matrix

SDM = [

[0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

[0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]

[1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0]

[0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1 0 0 0]

[0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0]

[0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0]

[1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0]

[0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 1 0 0 0]

[0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0]

[0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0]

[0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0]

[0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0 0]

[0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0 0]

[0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0 0]

[0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0 0 0]

[0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 0 1 0 0]

[0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0]

[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1]

[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0]

[0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0]

];

ReSULTS;

Solution with objective 383.

No of solutins = 6

z=33

06:91

xtruck = 7;

ytruck = 9;

wtruck = 30;

nt=15;

np=20;

Solution with objective 360.

No of solutins = 6

z=30

03:97