

/*objective function*/

Min :1.52X14 + 1.60X15 + 1.40X16 +1.70X24 + 1.63X25 +1.55X26 + 1.45X34
+ 1.57X35+ 1.3X36 + 5.15X4R1 + 5.69X4R2 + 6.13X4R3 + 5.63X4R4 +
5.80X4R5 + 5.12X5R1 + 5.47X5R2 + 6.05X5R3 + 6.12X5R4 + 5.71X5R5
+5.32X6R1 + 6.16X6R2 + 6.25X6R3 + 6.17X6R4 + 5.87X6R5;

/*Constraints*/

X14 + X15 + X16 = 93;

X24 + X25 + X26 = 88;

X34 + X35 + X36 = 95;

X14 + X24 + X34 = X4R1 + X4R2 + XR3 + XR4 + XR5 + X4D12;

X15 + X25 + X35 = X5R1 + X5R2 + X5R3 + X5R4 + X5R5 +X5D12;

X15 + X25 + X35 = X6R1 + X6R2 + X6R3 + X6R4 + X6R5 +X6D12;

X4R1 + X5R1 + X6R1 = 30;

X4R2 + X5R2 + X6R2 = 57;

X4R3 + X5R3 + X6R3 = 48;

X4R4 + X5R4 + X6R4 = 91;

X4R5 + X5R5 + X6R5 = 48;

X4D12 + X5D12 + X6D12 = 2;