Process flow:

General Variables detections:

Topics

Total groups

Student preference

-------------------------------------------------------------------------------------------------------------------

L1: p1, p2, p3 groups: 1

L2: p4, p5, p6 groups: 1

L3: p2, p3, p5 groups: 1 admin: 2-3

S1: p1, p5, p2, p3

S2: p6, p5, p2, p4

S3: p1, p2, p5, p4

S4: p2, p4, p6, p3

S5: p3, p6, p2, p4

S6: p5, p4, p2, p6

S7: p1, p5, p3, p6

S8: p5, p4, p6, p2

S9: p5, p2, p6, p3

-------------------------------------------------------------------------------------------------------------------

Preferance =

{

1:{p1:[S1, S3, S7], p6:[S2], p2:[S4], p3:[S5], p5:[S6, S8, S9]},

2:{p5:[S1, S2, S7], p2:[S3, S9], p4:[S4, S6, S8], p6:[S5]},

3:{p2:[S1, S2, S5, S6], p5:[S3], p6:[S4, S8, S9], p3:[S7]},

4:{p3:[S1, S4, S9], p6:[S7, S6], p4:[S2, S3, S5], p2: [S8]}

}

p1: 3, p2: 3-9 , p3:3, p4:3, p5:3, p6:3, p7:0-6, p8:0-6

P1+p2+p3 = 3

P4+p5+p6 = 3

P2+p3+p5 = 3

P1:0-3, p2:0-6, p3: 0-6, p4: 0-3, p5: 0-6, p6: 0-3

P1: S1, S3, S7

P6: S2

P2: S4

P3: S5

P5: S6, S8, S9

s 1 : p 1,p 2,p 3 l 1 : {p 1 , p 2 }

s 2 : p 1,p3,p2 l 2 : {p 3 }

s 3 : p 2, p 3,p1

lecturer capacities: d 1 = 2, d 2 = 1

group capacities: =1