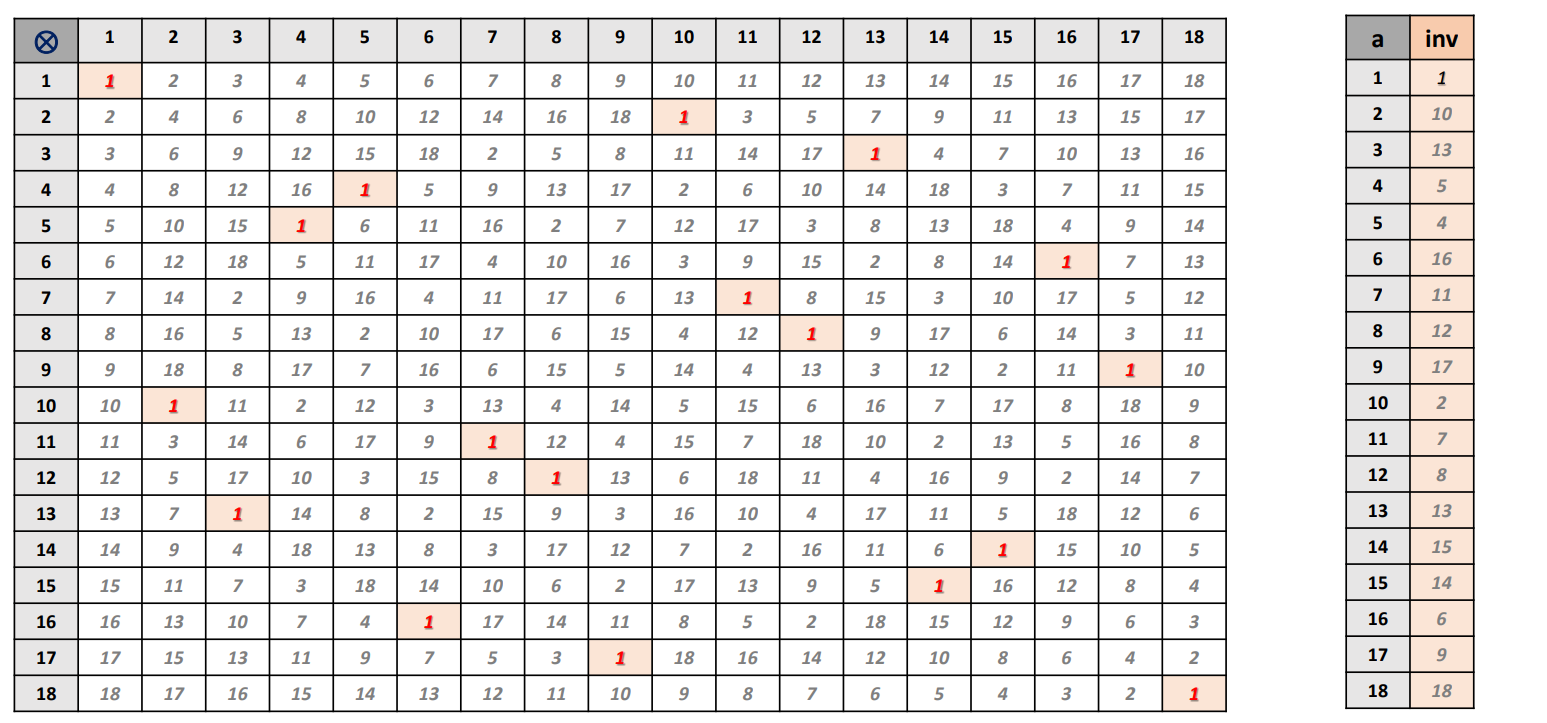
Homework2

Jun Rao

INF 638

= {0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18}



B.

12/3 = 1213 = 156  4 (mod 19)

3/12 = 38 = 24 5 (mod 19)

1/ (3/12) = 12/3 4 (mod 19)

A.

= 85 =40 2 (mod 19)

4/8= 412 = 48 10 (mod 19)

1/ (8/4) = 1/2 = 10 10 (mod 19)

D.

9/3 = 913= 117  3 (mod 19)

3/9 = 317=51 13 (mod 19)

1/ (3/9) = 9/3 3 (mod 19)

C.

14/7 = 1411 =154  2 (mod 19)

7/14 = 715=105 10 (mod 19)

1/ (7/14) = 14/7 2 (mod 19)

F.

15/3 = 1513 = 195 5 (mod 19)

3/15 = 314 = 42 4 (mod 19)

1/ (5/15) = 15/3 5 (mod 19)

E.

15/5 = 154 = 60 3 (mod 19)

5/15 = 514 = 70 13 (mod 19)

1/ (5/15) = 15/5 3 (mod 19)

H.

= 1813 =234 6 (mod 19)

3/18= 318 = 54 16 (mod 19)

1/ (3/18) = 18/3 6 (mod 19)

G.

= 104 =40 2 (mod 19)

5/10= 52 = 10 10 (mod 19)

1/ (5/10) = 10/5 2 (mod 19)

I.

= 165 =80 4 (mod 19)

4/16= 46 = 24 5 (mod 19)

1/ (4/16) = 16/4 4 (mod 19)