



Session 2

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Slow example "create\_scatter\_session" – brute force, no shuffling algo

15s, 32 of 120 45s, 75 of 120

faster example "shuffle\_between\_groups" – Fisher–Yates shuffle (group to group)

?ms, 32 of 120 ?ms, 75 of 120

## Bug: Repetition after first 2 groups Although groups randomized and members randomized

```
small_group_size = number_of_small_groups= 4
number of attendees <= 16
group 0 [[14, 7, 5, 12], [9, 10, 4, 1], [15, 0, 6, 3], [8, 2, 11, 13]]
                                                                         0.0000 sec,
group 1 [[15, 14, 9, 8], [6, 5, 4, 11], [0, 7, 10, 2]
                                                                        0.0010 sec, 8 groups, 48 / 120 pairs satisfied
group 2 [[2, 11, 13, 8], [10, 4, 1, 9],
                                                                        0.0010 sec, 12 groups, 48 / 120 pairs satisfied
                                                   14], [0, 6, 3, 15]
group 3 [[8, 14, 15, 9], [11, 5, 6, 4],
                                                                         0.0010 sec, 16 groups, 48 / 120 pairs satisfied
                                                                        0.0010 sec, 20 groups, 48 / 120 pairs satisfied
                                        [0, 15, 6, 3],
                                                                        0.0010 sec, 24 groups, 48 / 120 pairs satisfied
                         [4, 5, 6, 11], [10, 7, 0, 2], [9, 14, 15, 8]]
                                                                        0.0010 sec, 28 groups, 48 / 120 pairs satisfied
                                         [10, 9, 1, 4], [0, 15, 3, 6]]
group 6 [[2, 8, 13, 11],
                                         [4, 5, 6, 11], [9, 14, 15, 8]]
                                                                        0.0010 sec, 32 groups, 48 / 120 pairs satisfied
                       , [1, 4, 10, 9]
                                                                        0.0010 sec, 36 groups, 48 / 120 pairs satisfied
group 9 [[2, 0, 7, 10]
                                       [11, 6, 5, 4], [8, 15, 14, 9]]
                                                                        0.0010 sec, 40 groups, 48 / 120 pairs satisfied
```