**Planning the Assessment Center**

We are organizing an assessment center for a leadership program. There will be four sessions:

* Interview
* Presentation
* Technical Proficiency
* Case Study

How many ways can we arrange the 4 sessions during the day?

We have confirmed 4 candidates and 4 assessors to attend the assessment center. How many combinations can we have for session, candidate, and assessor assuming each session is a one-on-one between the candidate and the assessor?

At the start of the assessment center, an additional assessor arrives because of an email mistake. Now how many options do we have for assessors covering sessions (ignore the individual candidates)?

**Solution**:

There are 4 sessions for the assessment center. This means that we have

Combinations = 4! = 4\*3\*2\*1 = 24

arrangements in the schedule.

We can arrange an assessor and a candidate for a session in

Combinations = 4 sessions \* 4 candidates \* 4 assessors = 64 arrangements

If we have a fifth assessor arrive (by mistake), we can use that assessor in sessions by calculating the ways that 5 assessors can cover 4 sessions (we will not consider the ways candidates are assigned to sessions here).

Permutations = 5! / (5-4)! = 120 permutations