# Scheduling tool

This is an algorithm to generate one optimal solution among 10! (3.62 million) feasible solutions.

This tool is for 10 products. Each drink would have it’s own manufacturing times. To switch manufacturing from one drink to another drink there would be different setup times. Each drink requires different type of cleaning processes to clean the equipment. Hence, they would require different switching times.

One order can be:

1 2 3 4 5 6 7 8 9 10

Another can be:

3 4 6 7 1 2 8 10 9 5

And so on…

Each manufacturing order would have different manufacturing times. My algorithm finds the optimal solution to manufacture products with least manufacturing time. Hence, there would be 10! feasible solutions and hence, the algorithm generates one feasible solution.