Problema 2: PROGRAMAÇÃO DE PESSOAL

Importação Bibliotecas

```
In [ ]: from pulp import *
In [ ]: problem = LpProblem("ProblemaProducao", LpMinimize)
        empregados_requeridos = [ 17, 13, 15, 19, 14, 16, 11] #n funcionari
        N = len(empregados_requeridos)
        dias = list(range(N))
        funcionarios = LpVariable.dicts("funcionarios", dias, lowBound=0, cat="In
        #Objective function
        problem += lpSum([funcionarios[i] for i in dias])
        #Constraints
        for d in dias:
            problem += lpSum([funcionarios[(N-i+d)%N] for i in range(5)]) >= empr
In []: #Solve
        result = problem.solve(PULP_CBC_CMD(msg=0))
In [ ]: #Resultados
        for v in problem.variables():
            print(v.name, "=", v.varValue)
        print("F0 =", value(problem.objective))
        print("Current Status =", LpStatus[problem.status])
       funcionarios_0 = 2.0
       funcionarios_1 = 6.0
       funcionarios_2 = 0.0
       funcionarios_3 = 7.0
       funcionarios_4 = 0.0
       funcionarios_5 = 3.0
       funcionarios_6 = 5.0
       F0 = 23.0
       Current Status = Optimal
```