**IAPC**

**ALGORITHM**

*#define input data*

**courses = [**

**{"name": "Course A", "credits": 3, "prerequisites": []},**

**{"name": "Course B", "credits": 4, "prerequisites": ["Course A"]},**

**]**

**max\_periods = 10** *# Maximum number of academic periods*

**min\_credits\_per\_period = 12** *# Minimum academic load per period*

**max\_credits\_per\_period = 18** *# Maximum academic load per period*

**min\_courses\_per\_period = 3** *# Minimum number of courses per period*

**max\_courses\_per\_period = 5** *# Maximum number of courses per period*

*# Initialize an empty curriculum*

**curriculum = {period: [] for period in range(1, max\_periods + 1)}**

*#Initialize data structure for academic load and course count for each period*

**Prerequisites\_count = {courses[“name”]:0** for all course in courses**}**

**Course\_count = {courses[“name”]:courses[“credits”]** for all course in courses**}**