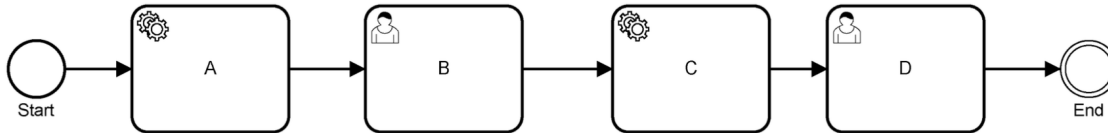


# BP3 Backend Coding Challenge

Here at BP3 we work with process diagrams a great deal. For this challenge, you are tasked with removing the non human steps from a diagram and constructing the process with only the human steps. The below diagram shows an example process for *1-simple-process.json* found in the data folder of this directory

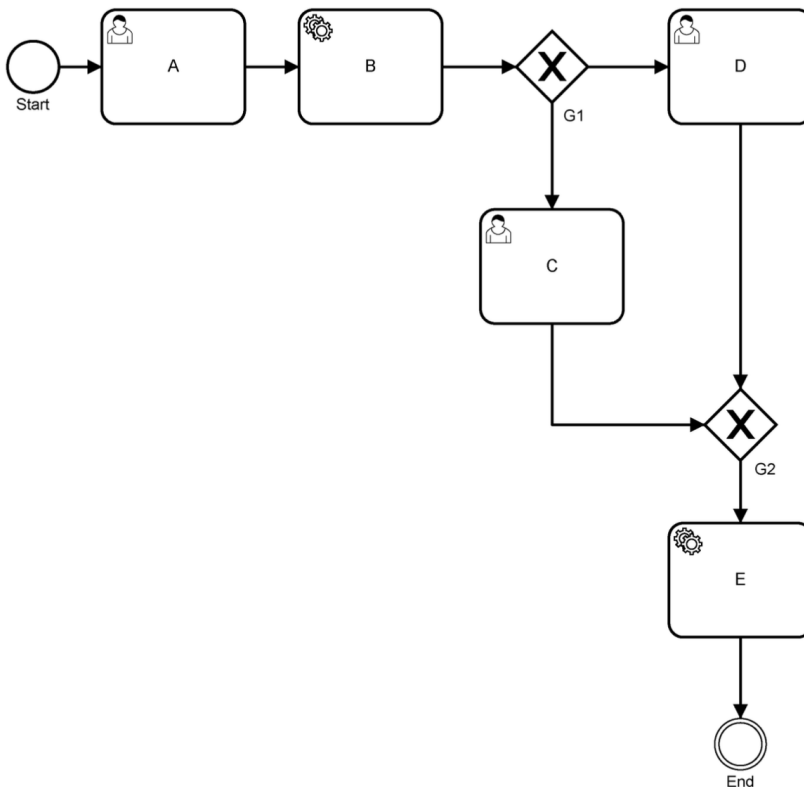


The circles are the start and the end of the process. Each square with a gear is a service task (no humans). Each square with a person is a human task.

Removing non human tasks, the above diagram would reduce down to:

Start -> B  
B -> D  
D -> End

Your task is to write a program that will reduce diagrams like this down to only its human tasks including the start and end nodes.



In the project directory you will find a folder called “data” with several json files inside. Each json file contains two lists, Nodes and Edges.

Here is an example node:

```
{
  "id": 4,
  "name": "D",
  "type": "HumanTask"
}
```

Each Node has a unique id representing the node, a name and a type. The type tells you if it is a human task or not.

Here is an example edge:

```
{
  "from": 0,
  "to": 1
}
```

The ‘from’ and ‘to’ properties represent the id of the nodes.

Your program should parse the attached JSON files in the ‘data’ folder and output the reduced diagram in the same JSON format. A successful implementation will be able to demonstrate the correct processing of each of the JSON files in the ‘data’ directory. Please include a few unit tests.

**The amount of time spent on this exercise is completely up to you**, if you only want to spend an hour or two to get things working and demonstrate that you know the core proficiencies of the technologies that is completely fine, or if you want to build the perfect application and plan to spend a lot of time doing so that is totally fine as well. **Please let the team know how much time you spend completing the challenge when you submit.**