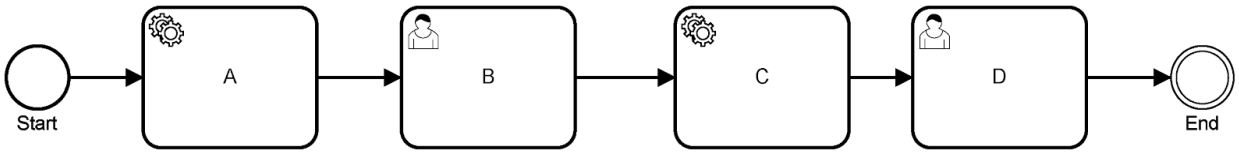
BP3 2019 Coding Challenge

Here at BP3 we work with process diagrams a great deal. This scenario has to do with removing the non human steps from a diagram and listing only the human steps.

Here is a simple diagram that demonstrates this:

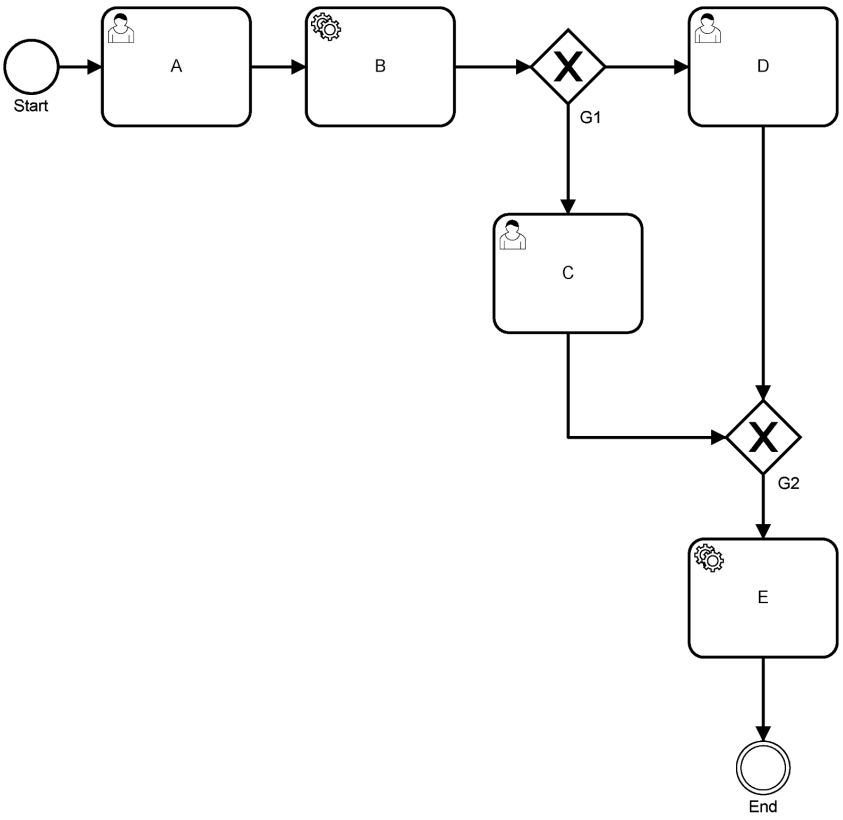


The circles are the start and the end of the process. Each square with a gear is a service task (no humans). Each square with a person is a human task.

This would reduce down to:

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

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



You will do this by parsing this attached JSON file that describes the diagram. The program needs to read in the file and output the reduced diagram in the same JSON format.

The json file is simple file with 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 should be obvious, the number represents the id in the node.