HealthCloudAI (Arintra) horizontal line

**Programming language to use:** Java / Python

**Assignment:**

You have a dictionary of symptoms. Some are top level symptoms (Abdominal pain, Chest Pain) and others are children connected to these parents by relationships.

**Example:** 'Abdominal pain, right upper quadrant' is a child of 'Abdominal pain' via relation 'location', 'Abdominal pain, mild' is a child of 'Abdominal Pain' via relation 'severity'.

**Dictionary:**

Abdominal pain

Abdominal pain, right upper quadrant

Abdominal pain, right lower quadrant

Abdominal pain, left upper quadrant

Abdominal pain, right upper quadrant

Abdominal pain, mild

Abdominal pain, moderate

Abdominal pain, severe

Chest pain

Chest pain, left side

Chest pain, right side

Chest pain, mild

Chest pain, moderate

Chest pain, severe

**Tasks:**

**1. Create the symptoms tree and print it.**

**Output:**

Root

--symptom--Abdominal pain

--location--Abdominal pain, right upper quadrant

--location--Abdominal pain, right lower quadrant

--location--Abdominal pain, left upper quadrant

--location--Abdominal pain, right upper quadrant

--severity--Abdominal pain, mild

--severity--Abdominal pain, moderate

--severity--Abdominal pain, severe

--symptom--Chest pain

--location--Chest pain, left side

--location--Chest pain, right side

--severity--Chest pain, mild

--severity--Chest pain, moderate

--severity--Chest pain, severe

**2. Now, you have created the tree. Given a child node, find all the siblings of this node.**

**Input 1:**

Abdominal pain, right upper quadrant

**Output 1:**

Abdominal pain, right lower quadrant

Abdominal pain, left upper quadrant

Abdominal pain, right upper quadrant

Abdominal pain, mild

Abdominal pain, moderate

Abdominal pain, severe

**Input 2:**

Abdominal pain

**Output 2:**

Chest pain

**Submission**

You can submit the source code of your solution using any of the following methods:

1. As a private GitHub repository with collaborator access to **albatronixhire** (Do Not make it public)

or

1. A Google Drive/Dropbox link can also be shared but please make sure access permissions are enabled.

***We look forward to hearing back from you. All the best!***