

(2,1)

[5, 6, 2]

```
graph TD; A([5, 6, 2]) --> B([4, 4, 0]); A --> C([0, 0, 2]); B --> D([1, 0, 0]); B --> E([0, 1, 0]); C --> F([0, 0, 1]);
```

A tree diagram with root node [5, 6, 2] and three leaf nodes [1, 0, 0], [0, 1, 0], and [0, 0, 1].

[4, 4, 0]

[0, 0, 2]

[1, 0, 0]

[0, 1, 0]

[0, 0, 1]