```
Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: C:\Users\hpsli\AppData\Local\Programs\Python\Python312\dfs.py ====
Following is the Depth-First Search
5
3
2
4
8
7
```