# **Solution 8 Puzzle**

### **DFS Implementation**

#### one.txt

two.txt

## **BFS Implementation**

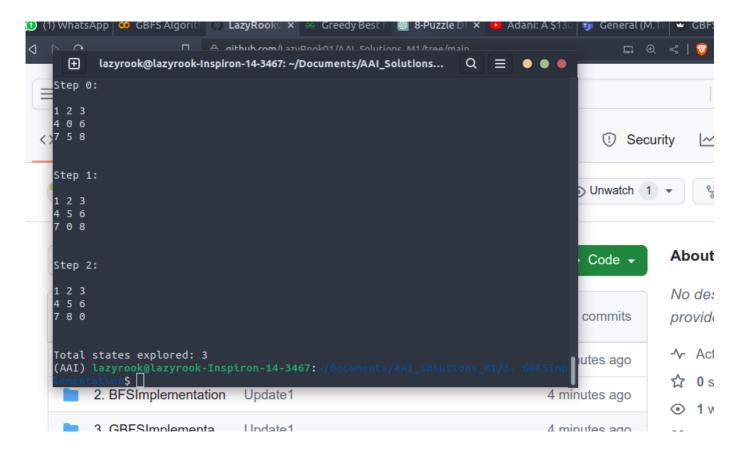
one.txt

#### two.txt

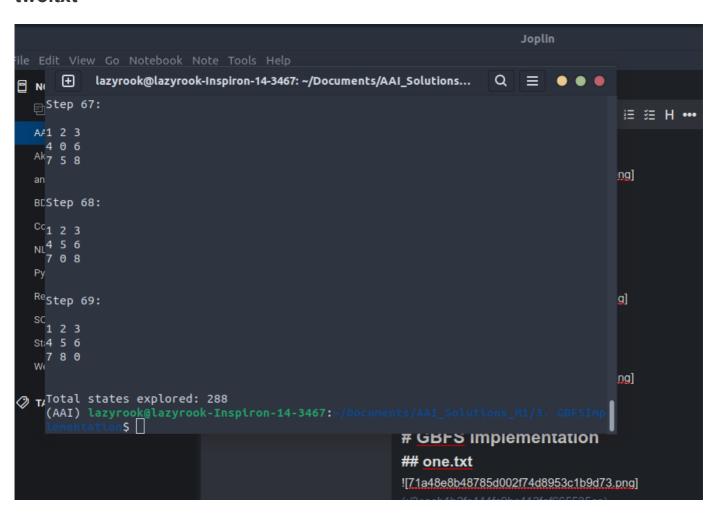
```
Documents AAI_Solutions_M1
0
       \oplus
            lazyrook@lazyrook-Inspiron-14-3467: ~/Documents/AAI_Solutions... Q
                                                                                 \equiv \bullet \bullet
\star
    Step 23:
    4 0 6
    7 5 8
    Step 24:
    4 5 6
    7 0 8
В
    Step 25:
    4 5 6
    7 8 0
    Total states explored: 310387
    (AAI) lazyrook@lazyrook-Inspiron-14-3467:~/Documen
```

### **GBFS Implementation**

#### one.txt



#### two.txt



### **A-star Implementation**

### one.txt

```
lazyrook@lazyrook-Inspiron-14-3467: ~/Documents/AAI_Solutions... 🔍 🗏 🌘 🌑 🌑
  Step 0:
                                                                                               ≣ 涯
  A#1 2 3
   4 0 6
  <sup>Ak</sup>7 5 8
  an
  BCStep 1:
                                                                                              g]
  <sup>Cc</sup>1 2 3
  NL 4 5 6
    7 0 8
                                                                                              ng]
  <sup>Re</sup>Step 2:
  SC
1 2 3
  St:4 5 6
  7 8 0
ng]
    (AAI) lazyrook@lazyrook-Inspiron-14-3467:~/Documents/AAmplementation$
```

#### two.txt

```
Step 23:
                                                                  Ⅲ Ⅲ Ⅲ Ⅲ
 A#1 2 0
 4 5 3
<sup>Ak</sup>7 8 6
                                                                  ng]
 an
 BDStep 24:
 <sup>Cc</sup>1 2 3
 NL 4 5 0
   7 8 6
 Ру
                                                                  ong]
 ReStep 25:
 SC
1 2 3
 St:4 5 6
 7 8 0
We
                                                                  ing]
(AAI) lazyrook@lazyrook-Inspiron-14-3467:~/Dmplementation$ ■
```