**TEST CASES**

**DFSTest**

**Scenes**

|  |  |
| --- | --- |
| Method |  |
| Fillgraph1 | A graph with 50 vertex that is not all related |
| Fillgraph2 | A graph with 50 vertex that is all related |

**Use cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Scene** | **Input** | **Output** |
| when\_it\_is\_connected1 | Fillgraph1 | “1” -> “30” | true |
| when\_it\_is\_connected2 | Fillgraph1 | “6” -> “16” | true |
| when\_it\_is\_connected3 | Fillgraph1 | “11” -> “23” | true |
| when\_it\_is\_not\_connected1 | Fillgraph1 | “1” -> “27” | false |
| when\_it\_is\_not\_connected2 | Fillgraph1 | “9” -> “24” | false |
| when\_it\_is\_not\_connected3 | Fillgraph1 | “46 -> “43” | false |
| when\_there\_is\_a\_node\_without\_related\_with\_others\_1 | Fillgraph1 | “20” -> “35” | false |
| when\_there\_is\_a\_node\_without\_related\_with\_others\_2 | Fillgraph1 | “41” -> “35” | false |
| when\_there\_is\_a\_node\_without\_related\_with\_others\_3 | Fillgraph1 | “44” ->  “35” | false |
| when\_all\_graph\_is\_related | Fillgraph2 | graph | true |
| when\_all\_graph\_is\_not\_related | Fillgraph1 | graph | false |

**DijkstraTest**

**Scenes**

|  |  |
| --- | --- |
| Method |  |
| Fillgraph1 | A graph with 50 vertex that is not all related |
| Fillgraph2 | A graph with 50 vertex that is all related |

**Use cases**

|  |  |  |  |
| --- | --- | --- | --- |
| **Method** | **Scene** | **Input** | **Output** |
| when\_there\_are\_too\_many\_routes\_but\_choose\_the\_better1 | Fillgraph2 | “1” -> “30” | “30” -> “2” -> “1” |
| when\_there\_are\_too\_many\_routes\_but\_choose\_the\_better2 | Fillgraph2 | “1” -> “23” | “23” -> “24” -> “13” -> “7” -> “4” -> “3” -> “1” |
| when\_there\_are\_too\_many\_routes\_but\_choose\_the\_better3 | Fillgraph2 | “28” -> “36” | “28” -> “36” |
| when\_there\_are\_not\_some\_route1 | Fillgraph1 | “1” -> “40” | “” |
| when\_there\_are\_not\_some\_route2 | Fillgraph1 | “24” -> “25” | “” |