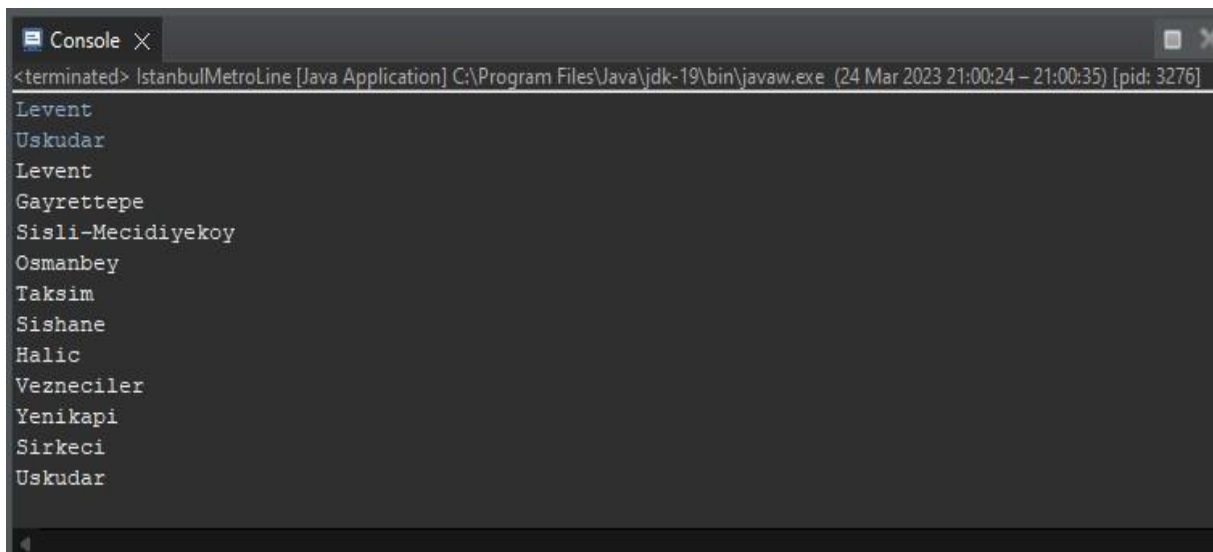


First of all, this program takes two inputs which are first and targeted stations. Then, it reads the file that contains the information about metro stations and store them in various arrays. After collecting the data from the file, code continues to find the path.

The first part of finding the path starts with checking the station whether it is a breakpoint or not. During checking step, code also finds the neighboring stations to the current station. To find the neighboring stations, related method searches the metro line that current station is in. After finding neighboring stations, code loops over these stations and calls itself recursively. Also, if a station has already passed, it won't be called again to avoid infinite recursions. Once code reaches targeted station, it returns the string that contains the stations it has passed. If it doesn't find the target station, it returns nothing. After returning string, code converts it to an array. Lastly, it prints the stations by looping an array. If inputs are not valid, it calls a method to check whether inputs are valid or not.

The last part of the program is drawing and animating. Firstly, it sets up the canvas. Then, it draws the metro lines with corresponding color values. Then, it draws points at the station's coordinates to depict the station and writes their names on canvas. Lastly, it animates the progress. The animation progress is drawing point on the passed stations. After code passes a station, the point goes to the next station and current station stays with a point with lower radius.

Sample input and outputs:



```
<terminated> IstanbulMetroLine [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (24 Mar 2023 21:00:24 – 21:00:35) [pid: 3276]  
Levent  
Uskudar  
Levent  
Gayrettepe  
Sisli-Mecidiyekoy  
Osmanbey  
Taksim  
Sishane  
Halic  
Vezneciler  
Yenikapi  
Sirkeci  
Uskudar
```



```
Console X
IstanbulMetroLine [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (24 Mar 2023 21:04:01) [pid: 16980]
IstanbulHavalimani
SabihaGokcenHavalimani
IstanbulHavalimani
Ihsaniye
Gokturk
Kemerburgaz
Hasdal
Kagithane
Caglayan
Sisli-Mecidiyekoy
Osmanbey
Taksim
Sishane
Halic
Vezneciler
Yenikapi
Sirkeci
Uskudar
AyrilikCesmesi
Acibadem
Unalan
Goztepe2
Yenisahra
Kozyatagi
Bostanci2
Kucukyali2
Maltepe2
Huzurevi
Gulsuyu
Esenkent
Hastane-Adliye
Soganlik
Kartal2
Yakacik
Pendik2
Tavsantepe
FevziCakmak
Yayalar
Kurtkoy
SabihaGokcenHavalimani
```

