Explanation of the Algorithm

My code finds a unique route (if it exists) between two lines (not between start station and end station) using a branching algorithm iterating through only the breakpoints for the efficiency. The code firstly starts searching the starting line in the breakpoints. Until it finds it does not add anything to the blacklist. When it does find the correct breakpoint, it does add the breakpoint to the blacklist and checks if that breakpoint does have end line. If it finds the end line in breakpoint it returns the blacklist as the route. If it does not find an end point, it calls itself with using the other lines (that breakpoint contains) as starting lines and a temporary copy of the blacklist and having that temporary list as an argument (if it does not the route on the first recursion). If the first loop ends within returning anything, the code returns an empty list for to indicate failure in finding a route between the start and end lines.

Example 1:

Input:
Levent
Uskudar
Console Output:
Levent
Gayrettepe
Sisli-Mecidiyekoy
Osmanbey
Taksim
Sishane
Halic
Vezneciler
Yenikapi
Sirkeci
Hskudar

Canvas Output:
https://drive.google.com/file/d/1hZYwU NMIxqOAQXJCNksl0EhXlb8pBJ3/view?usp=sharing
Example 2:
Input:
Aksaray
Bahariye
Console Output:
These two stations are not connected
Canvas Output:
Canvas will not pop up.
Example 3:
Input:
Bogazici
Kadikoyy

Console Output:

The station names provided are not present in this map.

Canvas Output:

Canvas will not pop up.

Example 4:

Input:

IstanbulHavalimani

SabihaGokcenHavalimani

Console Output:

IstanbulHavalimani

Ihsaniye
Gokturk
Kemerburgaz
Hasdal
Kagithane
Caglayan
Sisli-Mecidiyekoy
Osmanbey
Taksim
Sishane
Halic
/ezneciler
⁄enikapi
Sirkeci
Jskudar
AyrilikCesmesi
Acibadem
Jnalan
Goztepe2
/enisahra
Kozyatagi
Bostanci2
Kucukyali2
Maltepe2
Huzurevi
Gulsuyu
Esenkent
Hastane-Adliye
Soganlik
Kartal2
/akacik

Pendik2
Tavsantepe
FevziCakmak
Yayalar
Kurtkoy
SahihaGokcenHavalimani

Canvas Output:

https://drive.google.com/file/d/1XZIGW-TdjwH-iCR57ek1npeKOEoXNF7m/view?usp=sharing