

# Algoritma Analizi 3.ödev

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## Yöntem:

Tasarladığım algoritma verilen uçuş bilgilerinden yararlanarak müşterilerin kendilerine uygun seyahat rotasını çıkarmasına yardımcı oluyor. Kodumda önce uçuş bilgilerini okuyup bunları FLIGHT türünde bir nesne yardımıyla saklıyorum. Ardından kullanıcıdan nereden? Nereye? En kısa rota - En ucuz rota bilgilerini alıp bir graph oluşturuyorum. Graph oluştururken matris kullanımının alanı gereksiz kullanıcağından adjencency list tercih ettim. Bu graph üzerinde bir noktadan istenilen noktaya giden tüm yolları bulmam gerektiğinden depth first search algoritmasını kullanıyorum.

## Uygulama:

```
what do you want to do?
1-search for a flight
2-quit
1
from?
Istanbul
to?
Paris
maximum number of transfers?
1
minimum price or minimum time?(type price or time)
price

source: Istanbul destination: Paris stops: Berlin, hour: 6 minute: 15 price: 300
source: Istanbul destination: Paris stops: Atina, hour: 7 minute: 0 price: 320

do you want to export it?(y/n)
y

what do you want to do?
1-search for a flight
2-quit
1
from?
Istanbul
to?
Londra
maximum number of transfers?
0
minimum price or minimum time?(type price or time)
time
there is no flight with these conditions
what do you want to do?
1-search for a flight
2-quit
1
from?
Helsinki
to?
Istanbul
```

```

what do you want to do?
1-search for a flight
2-quit
1
from?
Helsinki
to?
Istanbul
maximum number of transfers?
3
minimum price or minimum time?(type price or time)
time

source: Helsinki destination: Istanbul stops: Berlin, hour: 11 minute: 10 price: 450
source: Helsinki destination: Istanbul stops: Paris,Berlin, hour: 14 minute: 25 price: 600
source: Helsinki destination: Istanbul stops: Paris,Atina, hour: 15 minute: 10 price: 620
source: Helsinki destination: Istanbul stops: Paris,Londra,Atina, hour: 16 minute: 20 price: 695
source: Helsinki destination: Istanbul stops: Berlin,Paris,Atina, hour: 16 minute: 25 price: 670

do you want to export it?(y/n)
n

what do you want to do?
1-search for a flight
2-quit
2

-----
Process exited after 151.6 seconds with return value 0
Press any key to continue . . .

```

```

what do you want to do?
1-search for a flight
2-quit
1
from?
newyork
to?
mersin
maximum number of transfers?
2
minimum price or minimum time?(type price or time)
price
city couldn't be found
-----
Process exited after 16.06 seconds with return value
Press any key to continue . . .

```