Searching for Data

Linear Search



By the end of this video you will be able to...

- Motivate the importance of search
- Write code to perform a linear search

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Search tools

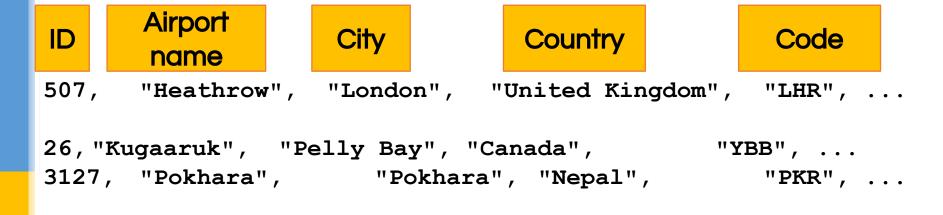
About 21,000,000 results (0.73 seconds)

San Diego International - World Airport Codes

https://www.world-airport-codes.com/.../san-diego-international-6531.ht... ▼ IATA Code, SAN, ICAO Code, KSAN. FAA Code, Phone, (619) 231 2100. Fax, Latitude, 32.7336006. Longitude, -117.1900024, Time Zone ...

Airport Codes

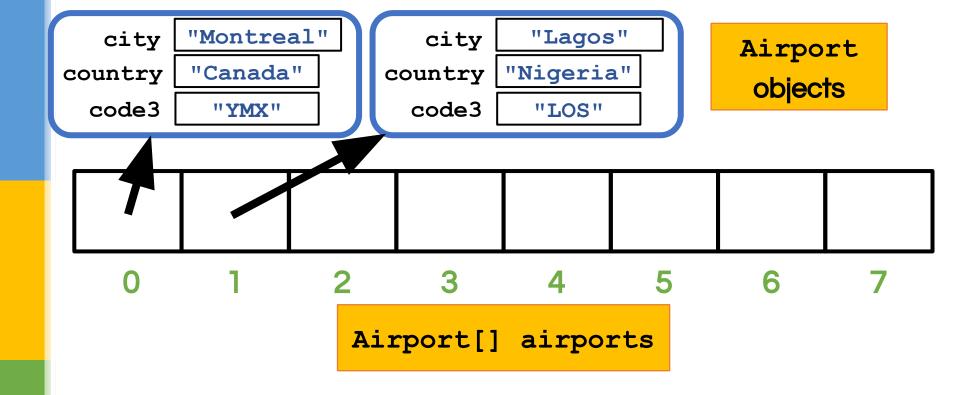
www.fodors.com/deals/airports.html ▼ Fodor's ▼ Airport Codes. Browse by ... Alamosa, CO; ALS; San Luis Valley Regional Airport. Albany, NY; ALB San Diego, CA; SAN; San Diego International Airport. San ...



6977 Airports in airports.dat

http://openflights.org/data.html

```
public class Airport
    private String city;
    private String country;
    private String code3;
    public String getCity() { return this.city; }
    public String getCountry() { return this.country; }
    public String getCode() { return this.code3; }
```



Montreal Canada YMX	Lagos Nigeria LOS	Essen Germany ESS	Chicago USA ORD	Beijing China PEK	Sydney Australi a SYD	Quito Ecuador UIO	Agra India AGR
0	1	2	3	4	5	6	7

Airport[] airports



Find Beijing: Linear Search

Montreal Canada YMX	Lagos Nigeria LOS	Essen Germany ESS	Chicago USA ORD	Beijing China PEK	Sydney Australi a SYD	Quito Ecuador UIO	Agra India AGR
0	1	2	3	4	5	6	7

toFind Beijing



index

toFind | Beijing









LinearSearch: Basic Algorithm

Start at the first index in the array
while index is less than the length of the array:
if the city to find equals the city at the current index,
return the airport code
increment index by 1
return a value to indicate the airport was not found





Airport:
getfoty()
getCode()