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Abdallah@AbdallahFathi MINGW64 /a/C++/ExchangeRateAnalyzer
$ g++ ExchangeRateAnalyzer.cpp heap.cpp max_subsequence_sum.cpp
```

```
Abdallah@AbdallahFathi MINGW64 /a/C++/ExchangeRateAnalyzer
$ ./a
```

Select a file to analyze:

1. australian-dollar.csv
2. dollar-franc.csv
3. dollar-index.csv
4. dollar-peso.csv
5. dollar-singapore.csv
6. dollar-yen.csv
7. dollar-yuan.csv
8. euro-dollar.csv
9. euro-franc.csv
10. euro-pound.csv
11. euro-yen.csv
12. pound-dollar.csv
13. pound-yen.csv
14. newzealand-dollar.csv

Enter the number corresponding to the file:

8

Top 5 highest exchange rates:

Date: 4/22/2008, Change: 0.413845  
Date: 4/16/2008, Change: 0.409045  
Date: 7/11/2008, Change: 0.408045  
Date: 7/21/2008, Change: 0.406845  
Date: 7/15/2008, Change: 0.406145

Top 5 lowest exchange rates:

Date: 10/25/2000, Change: -0.358455  
Date: 10/26/2000, Change: -0.356055  
Date: 10/24/2000, Change: -0.350055  
Date: 10/23/2000, Change: -0.349855  
Date: 7/5/2001, Change: -0.348655

Maximum Subsequence Sum Period:

Start Date: 1/4/1999, End Date: 11/16/2023

Do you want to analyze another file? Y/N

Do you want to analyze another file? Y/N  
y

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1. australian-dollar.csv
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11. euro-yen.csv
12. pound-dollar.csv
13. pound-yen.csv
14. newzealand-dollar.csv

Enter the number corresponding to the file:  
11

Top 5 highest exchange rates:

Date: 2008-07-18, Change: 40.7978  
Date: 2008-07-21, Change: 40.7978  
Date: 2008-07-25, Change: 40.7478  
Date: 2008-07-22, Change: 40.6978  
Date: 2008-07-23, Change: 40.6778

Top 5 lowest exchange rates:

Date: 2000-10-25, Change: -39.2322  
Date: 2000-10-26, Change: -38.7222  
Date: 2000-10-24, Change: -38.5922  
Date: 2000-10-23, Change: -38.2522  
Date: 2000-09-20, Change: -38.2222

Maximum Subsequence Sum Period:

Start Date: 1999-01-04, End Date: 2023-11-20

Do you want to analyze another file? Y/N  
n

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Enter the number corresponding to the file:

8

Top 10 highest exchange rates:

Date: 4/22/2008, Change: 0.413845  
Date: 4/16/2008, Change: 0.409045  
Date: 7/11/2008, Change: 0.408045  
Date: 7/21/2008, Change: 0.406845  
Date: 7/15/2008, Change: 0.406145  
Date: 4/21/2008, Change: 0.405045  
Date: 7/14/2008, Change: 0.404845  
Date: 4/17/2008, Change: 0.404145  
Date: 4/23/2008, Change: 0.403345  
Date: 7/2/2008, Change: 0.402345

Top 10 lowest exchange rates:

Date: 10/25/2000, Change: -0.358455  
Date: 10/26/2000, Change: -0.356055  
Date: 10/24/2000, Change: -0.350055  
Date: 10/23/2000, Change: -0.349855  
Date: 7/5/2001, Change: -0.348655  
Date: 11/24/2000, Change: -0.347255  
Date: 10/18/2000, Change: -0.346655  
Date: 10/27/2000, Change: -0.346655  
Date: 10/30/2000, Change: -0.345055  
Date: 10/20/2000, Change: -0.344155

Maximum Subsequence Sum Period:

Start Date: 1/4/1999, End Date: 11/16/2023