Programming language version: C++ (2011)

Implement Steps: First, read in the data. Put the data into the matrix array, and use the concept of QR decomposition to do calculation. We know that every column of Q is unit vector, so I create U matrix, where Q = U / (length of each column vector of A).

How to execute your code:

```
g++ -o qr-decomposition qr-decomposition.cpp
./qr-decomposition
```

The .exe file will generate output.txt, and the result is inside of it.

Reference:

https://math.stackexchange.com/

https://stackoverflow.com/