```
#include <iostream>
#include <fstream>
#include <string>
#include <sstream>
using namespace std;
int main()
    //declare constants
    string line;
    int MSize = 512; //matrix size
    cout << "Writing random matrix1 values" << endl;</pre>
    ofstream matrix1Write;
    matrix1Write.open("matrix1.txt");
    matrix1Write << to string(MSize) << endl;</pre>
    int sign;
    for(int i=0; i<MSize; i++){</pre>
        for(int j=0; j<MSize; j++){</pre>
             sign = rand() \% 2;
             if(sign==0){
                 matrix1Write << to_string(rand() % 11 + (-10)) <<',';</pre>
             else if (sign==1){
                  matrix1Write << to_string(rand() % 11) <<',';</pre>
             else{
                 cout << "if statment broke" << endl;</pre>
                 break;
```

```
matrix1Write << endl;</pre>
matrix1Write.close();
cout << "Writing random matrix2 values" << endl;</pre>
ofstream matrix2Write;
matrix2Write.open("matrix2.txt");
matrix2Write << to_string(MSize) << endl;</pre>
for(int i=0; i<MSize; i++){</pre>
    for(int j=0; j<MSize; j++){</pre>
         sign = rand() \% 2;
         if(sign==0){
             matrix2Write << to_string(rand() % 11 + (-10)) <<',';</pre>
         else if (sign==1){
              matrix2Write << to_string(rand() % 11) <<',';</pre>
         else{
             cout << "if statment broke" << endl;</pre>
             break;
    matrix2Write << endl;</pre>
matrix2Write.close();
return 0;
```