```cpp
1  #include "iVigenereStream.h"
2  #include <cstdio>
3
4  iVigenereStream::iVigenereStream(Cipher aCipher, const std::string
   &aKeyword,
5                                  const char *aFileName)
6      : fCipherProvider(aKeyword) {
7
8      auto lCallable = [](Vigenere &aCipherProvider, char aCharacter) {
9          return aCipherProvider.decode(aCharacter);
10     };
11
12     this->fCipher = lCallable;
13     if (aFileName != nullptr) {
14         // open the stream, well I'd cba this for later
15         this->open(aFileName);
16     }
17 }
18
19 iVigenereStream::~iVigenereStream() {
20     // close the stream
21     this->fIStream.close();
22 }
23
24 void iVigenereStream::open(const char *aFileName) {
25     this->fIStream.open(aFileName);
26 }
27
28 void iVigenereStream::close() { this->fIStream.close(); }
29
30 void iVigenereStream::reset() { this->seekstart(); }
31
32 bool iVigenereStream::good() const { return this->fIStream.good(); }
33
34 bool iVigenereStream::is_open() const { return this->fIStream.is_open(); }
35
36 bool iVigenereStream::eof() const { return this->fIStream.eof(); }
37
38 iVigenereStream &iVigenereStream::operator>>(char &aCharacter) {
39     if (true) {
40         char getch = this->fIStream.get();
41         aCharacter = this->fCipher(this->fCipherProvider, getch);
42     }
43     return *this;
44 }
45
```