

```
1 #include "iVigenereStream.h"
2
3 iVigenereStream::iVigenereStream(Cipher aCipher, const std::string&      ↗
    aKeyword, const char* aFileName): fIStream(std::ifstream()),      ↗
    fCipherProvider(Vigenere(aKeyword)), fCipher(std::move(aCipher))
4 {
5     if (aFileName != nullptr)
6     {
7         open(aFileName);
8     }
9 }
10
11 iVigenereStream::~iVigenereStream()
12 {
13     close();
14 }
15
16 void iVigenereStream::open(const char* aFileName)
17 {
18     fIStream.open(aFileName, std::ios::binary);
19 }
20
21 void iVigenereStream::close()
22 {
23     fIStream.close();
24 }
25
26 void iVigenereStream::reset()
27 {
28     fCipherProvider.reset();
29     seekstart();
30 }
31
32 bool iVigenereStream::good() const
33 {
34     return fIStream.good();
35 }
36
37 bool iVigenereStream::is_open() const
38 {
39     return fIStream.is_open();
40 }
41
42 bool iVigenereStream::eof() const
43 {
44     return fIStream.eof();
45 }
46
47 iVigenereStream& iVigenereStream::operator>>(char& aCharacter)
```

```
48 {  
49     aCharacter = fCipher(fCipherProvider, static_cast<char>(fIStream.get  
    ());  
50     return *this;  
51 }
```