

```
1  #include "VigenereForwardIterator.h"
2
3  VigenereForwardIterator::VigenereForwardIterator( iVigenereStream& aIStream) :
4      fIStream(aIStream),
5      fCurrentChar(0),
6      fEOF(false)
7  {
8      fIStream.seekstart();
9
10     aIStream >> fCurrentChar;
11 }
12
13 char VigenereForwardIterator::operator*() const
14 {
15     return this->fCurrentChar;
16 }
17
18 VigenereForwardIterator& VigenereForwardIterator::operator++()
19 {
20     VigenereForwardIterator result = *this;
21     fIStream >> fCurrentChar;
22     if (fIStream.eof()) {
23         fEOF = true;
24     }
25     return *this;
26 }
27
28 VigenereForwardIterator VigenereForwardIterator::operator++(int)
29 {
30     VigenereForwardIterator result = *this;
31     if (fEOF == false)
32     {
33         ++(*this);
34     }
35     return result;
36 }
37
38 bool VigenereForwardIterator::operator==(const VigenereForwardIterator&
39     aOther) const
40 {
41     return fCurrentChar == aOther.fCurrentChar && fEOF == aOther.fEOF;
42 }
43
44 bool VigenereForwardIterator::operator!=(const VigenereForwardIterator&
45     aOther) const
46 {
47     return !(*this == aOther);
48 }
```

```
48 VigenereForwardIterator VigenereForwardIterator::begin() const
49 {
50     VigenereForwardIterator result = *this;
51     result.fIStream.reset();
52     return result;
53 }
54
55 VigenereForwardIterator VigenereForwardIterator::end() const
56 {
57     VigenereForwardIterator Result = *this;
58     Result.fEOF = true;
59     return Result;
60 }
61
```