

Program 8.1: Converting a string into a non-negative integer

```
1 unsigned int StringToInt (string s)
2 { //Convert s into a nonnegative int that
3   //depends on all characters of s.
4   int length=(int)s.length(); //number of characters in s
5   unsigned int answer=0;
6   if (length%2==1)
7     { //length is odd
8       answer=s.at(length-1);
9       length--;
10    }
11
12    //length is now even
13    for (int i=0; i<length; i+=2)
14      { //do two characters at a time
15        answer+=s.at(i);
16        answer+=((int)s.at(i+1))<<8;
17      }
18
19    return answer;
20 }
```