Quiz #6

Name:

1. Function `Average` returns the average of the numbers in array `A`. Complete function `Average` started below:

```
// Pre: A.length( ) > 0.
// Post: The average of the values in A is returned.
double Average( const apvector<double> & A )
{
```

2. Write a `main` that opens a file named `"input.txt"`, and then prints the average of the `double` values contained in the file. You may assume that the file exists, and thus you do not have to check the state of the stream; you also may use the simplest form for `open` (in other words, you do not need the second parameter). The first entry in the file is an integer that tells you how many subsequent numbers there are. Those numbers are to be read into an apvector, and then the average is to be computed by calling the function in part 1.

```
int main( )
{
    ifstream fin;
    apvector<double> A;
    int NumberOfItems;
    int i;
```