MPI Scatter/Gather Lab Files

From Education

Input Test Files

- small.txt (http://wiki.sc-education.org/images/a/a4/Small.txt)
- medium.txt (http://wiki.sc-education.org/images/c/c4/Medium.txt)
- therealdeal.txt (http://wiki.sc-education.org/images/1/14/Therealdeal.txt)

Input.c

```
#include <stdio.h>
#include <stdlib.h>

int main(int argc, char ** argv) {

FILE *filePtr;
int const LINE_LENGTH = 15;
char charNum[LINE_LENGTH];
int numValues, x;

filePtr = fopen(argv[1], "r");
fgets(charNum, LINE_LENGTH, filePtr);
numValues = atoi(charNum);
int values[numValues];

for (x = 0; x < numValues; x++) {
  fgets(charNum, LINE_LENGTH, filePtr);
  values[x] = atoi(charNum);
}

fclose(filePtr);

for (x = 0; x < numValues; x++) {
  printf("x[%d] = %d\n", x, values[x]);
}
}
```

Kay's Solution