

- 1) (6 pts) Write a *single* F90 program that will search through the integers in the datafile `hw16a.in` and determine
- The row number of the first value that is greater than 100.
 - The row number of the first value that is less than -10.
 - The row number of the first value that is zero.

Your program must only read through the data file once.

- 1) (6 pts) Write a *single* F90 program that will search through the datafile `hw16b.in` and determine the following information
- The largest value
 - The smallest value (in the number line sense)
 - The smallest absolute value

- 2) (7 pts) Write a *single* F90 program that will compute the sums below:

a) $\sum_{i=1}^{10} i^2 + i$

b) $\sum_{i=10}^1 i^2 + i$

c) $\sum_{i=1}^{20} \frac{i+1}{i}$

d) $\sum_{i=n}^{n^2} \sqrt{i}$. You should read the value of n from the keyboard. Test your program using $n = 8$.

e) $\sum_{i=1}^{15} \sum_{j=0}^i i + j + ij$