

In this lab, students will practice how to use vectors in Fortran 90 programs.

1. Write a Fortran program which will create 100 random positive integers between 1 to 2000, and write down those integers into a file named `randat.dat`. The file also records the number of integers (in this case it is 100)
2. Write a Fortran program using an allocatable vector A which will get data from the file `randat.dat`. The program will output the maximum, minimum and average values of these integers.