## **Project Specifications**

* Physical memory is an integer array PM[524288]
* The disk (when implementing demand paging) is an integer array D[1024][512]
* All VAs and PAs are integers
* The size of s, p, and w is 9 bits each.
* The VM manager initializes the PM from an input file consisting of 2 lines.
  + Line 1 contains triples of integers, which define the contents of the ST
  + Line 2 contains triples of integers, which define the contents of the PTs
  + The initialization file is syntactically correct in that:
    - Line 1 correctly specifies 1 or more segment table entries
    - Line 2 correctly specifies 0 or more entries in PTs for the segments specified on line 1
* The VM manager then reads VAs from another input file, attempts to translate each into a PA, and write the results into an output file
* The basic version of the VM manager does not support demand paging and is worth 60% of the credit for the project
* The extended version of the VM manager must support demand paging and is worth 100% of the credit for the project
* For demand paging, the PM will always have a sufficient number of free frames available so that no page replacement algorithm is needed.