**Sample test cases**

**Without demand paging:**

* The initialization file contains the 2 lines:

6 3000 4

6 5 9

* The input file contains:

1575424 1575863 1575864

* The output file should contain:

4608 5047 -1

**With demand paging:**

* The initialization file contains the 2 lines:

8 4000 3 9 5000 -7

8 0 10 8 1 -20 9 0 13 9 1 -25

* That means, frames 0, 1, 3, 10, 13 are occupied. The following VA translations use the free frames 2, 4, 5 when a page fault occurs.
* The input file contains:

2097162 2097674 2359306 2359818

* The output file should contain:

5130 1034 6666 2570