Sample output from my solution to problem #1 (your should match the format: the times depend on your machine's speed).

```
Priority Queue of size 10000
Analysis of 5 timings
avg = 0.333   min = 0.331  max = 0.335  span = 1.3%

    Time Ranges
3.31e-01<>3.31e-01[ 40.0%]|************************************************
3.31e-01<>3.32e-01[  0.0%]|
3.32e-01<>3.32e-01[  0.0%]|
3.32e-01<>3.33e-01[  0.0%]|
3.33e-01<>3.33e-01[ 20.0%]|***********************A
3.33e-01<>3.34e-01[  0.0%]|
3.34e-01<>3.34e-01[  0.0%]|
3.34e-01<>3.35e-01[  0.0%]|
3.35e-01<>3.35e-01[ 20.0%]|***********************
3.35e-01<>3.35e-01[  0.0%]|
3.35e-01<>3.36e-01[ 20.0%]|***********************


Priority Queue of size 20000
Analysis of 5 timings
avg = 0.390   min = 0.389  max = 0.391  span = 0.4%

    Time Ranges
3.89e-01<>3.89e-01[ 20.0%]|***********************
3.89e-01<>3.89e-01[  0.0%]|
3.89e-01<>3.89e-01[  0.0%]|
3.89e-01<>3.90e-01[  0.0%]|
3.90e-01<>3.90e-01[ 20.0%]|***********************
3.90e-01<>3.90e-01[  0.0%]|A
3.90e-01<>3.90e-01[ 40.0%]|************************************************
3.90e-01<>3.90e-01[  0.0%]|
3.90e-01<>3.90e-01[  0.0%]|
3.90e-01<>3.91e-01[  0.0%]|
3.91e-01<>3.91e-01[ 20.0%]|***********************


Priority Queue of size 40000
Analysis of 5 timings
avg = 0.433   min = 0.432  max = 0.435  span = 0.7%

    Time Ranges
4.32e-01<>4.32e-01[ 20.0%]|***********************
4.32e-01<>4.32e-01[ 40.0%]|************************************************
4.32e-01<>4.33e-01[  0.0%]|
4.33e-01<>4.33e-01[  0.0%]|
4.33e-01<>4.33e-01[  0.0%]|A
4.33e-01<>4.33e-01[  0.0%]|
4.33e-01<>4.34e-01[  0.0%]|
4.34e-01<>4.34e-01[ 20.0%]|***********************
4.34e-01<>4.34e-01[  0.0%]|
4.34e-01<>4.35e-01[  0.0%]|
4.35e-01<>4.35e-01[ 20.0%]|***********************


Priority Queue of size 80000
Analysis of 5 timings
avg = 0.469   min = 0.468  max = 0.470  span = 0.4%
```

```
    Time Ranges
4.68e-01<>4.69e-01[ 20.0%]|**********************************************
4.69e-01<>4.69e-01[  0.0%]|
4.69e-01<>4.69e-01[ 20.0%]|*********************************************
4.69e-01<>4.69e-01[  0.0%]|
4.69e-01<>4.69e-01[  0.0%]|A
4.69e-01<>4.70e-01[ 20.0%]|**********************************************
4.70e-01<>4.70e-01[ 20.0%]|**********************************************
4.70e-01<>4.70e-01[  0.0%]|
4.70e-01<>4.70e-01[  0.0%]|
4.70e-01<>4.70e-01[  0.0%]|
4.70e-01<>4.70e-01[ 20.0%]|**********************************************


Priority Queue of size 160000
Analysis of 5 timings
avg = 0.505   min = 0.504  max = 0.507  span = 0.6%

    Time Ranges
5.04e-01<>5.04e-01[ 20.0%]|**********************************************
5.04e-01<>5.04e-01[  0.0%]|
5.04e-01<>5.05e-01[ 20.0%]|**********************************************
5.05e-01<>5.05e-01[ 20.0%]|**********************************************
5.05e-01<>5.05e-01[  0.0%]|
5.05e-01<>5.06e-01[  0.0%]|A
5.06e-01<>5.06e-01[  0.0%]|
5.06e-01<>5.06e-01[  0.0%]|
5.06e-01<>5.07e-01[  0.0%]|
5.07e-01<>5.07e-01[ 20.0%]|**********************************************
5.07e-01<>5.07e-01[ 20.0%]|**********************************************


Priority Queue of size 320000
Analysis of 5 timings
avg = 0.540   min = 0.539  max = 0.541  span = 0.5%

    Time Ranges
5.39e-01<>5.39e-01[ 20.0%]|**********************
5.39e-01<>5.39e-01[  0.0%]|
5.39e-01<>5.39e-01[  0.0%]|
5.39e-01<>5.40e-01[ 20.0%]|**********************
5.40e-01<>5.40e-01[  0.0%]|
5.40e-01<>5.40e-01[  0.0%]|A
5.40e-01<>5.41e-01[  0.0%]|
5.41e-01<>5.41e-01[ 40.0%]|**********************************************
5.41e-01<>5.41e-01[  0.0%]|
5.41e-01<>5.41e-01[  0.0%]|
5.41e-01<>5.42e-01[ 20.0%]|**********************


Priority Queue of size 640000
Analysis of 5 timings
avg = 0.573   min = 0.572  max = 0.574  span = 0.3%

    Time Ranges
5.72e-01<>5.73e-01[ 20.0%]|**********************
5.73e-01<>5.73e-01[  0.0%]|
5.73e-01<>5.73e-01[  0.0%]|
5.73e-01<>5.73e-01[  0.0%]|
5.73e-01<>5.73e-01[  0.0%]|
```

```
5.73e-01<>5.73e-01[ 40.0%]|***************************************************A
5.73e-01<>5.74e-01[ 20.0%]|***********************
5.74e-01<>5.74e-01[  0.0%]|
5.74e-01<>5.74e-01[  0.0%]|
5.74e-01<>5.74e-01[  0.0%]|
5.74e-01<>5.74e-01[ 20.0%]|***********************
```

```
Priority Queue of size 1280000
Analysis of 5 timings
avg = 0.609   min = 0.607  max = 0.613  span = 1.0%

   Time Ranges
6.07e-01<>6.07e-01[ 20.0%]|************************************************
6.07e-01<>6.08e-01[ 20.0%]|************************************************
6.08e-01<>6.08e-01[ 20.0%]|************************************************
6.08e-01<>6.09e-01[  0.0%]|
6.09e-01<>6.10e-01[  0.0%]|A
6.10e-01<>6.10e-01[  0.0%]|
6.10e-01<>6.11e-01[  0.0%]|
6.11e-01<>6.11e-01[  0.0%]|
6.11e-01<>6.12e-01[  0.0%]|
6.12e-01<>6.13e-01[ 20.0%]|************************************************
6.13e-01<>6.13e-01[ 20.0%]|************************************************
```

```
Priority Queue of size 2560000
Analysis of 5 timings
avg = 0.644   min = 0.640  max = 0.648  span = 1.3%

   Time Ranges
6.40e-01<>6.41e-01[ 20.0%]|***********************
6.41e-01<>6.42e-01[  0.0%]|
6.42e-01<>6.42e-01[  0.0%]|
6.42e-01<>6.43e-01[ 20.0%]|***********************
6.43e-01<>6.44e-01[ 40.0%]|***************************************************A
6.44e-01<>6.45e-01[  0.0%]|
6.45e-01<>6.46e-01[  0.0%]|
6.46e-01<>6.47e-01[  0.0%]|
6.47e-01<>6.47e-01[  0.0%]|
6.47e-01<>6.48e-01[  0.0%]|
6.48e-01<>6.49e-01[ 20.0%]|***********************
```