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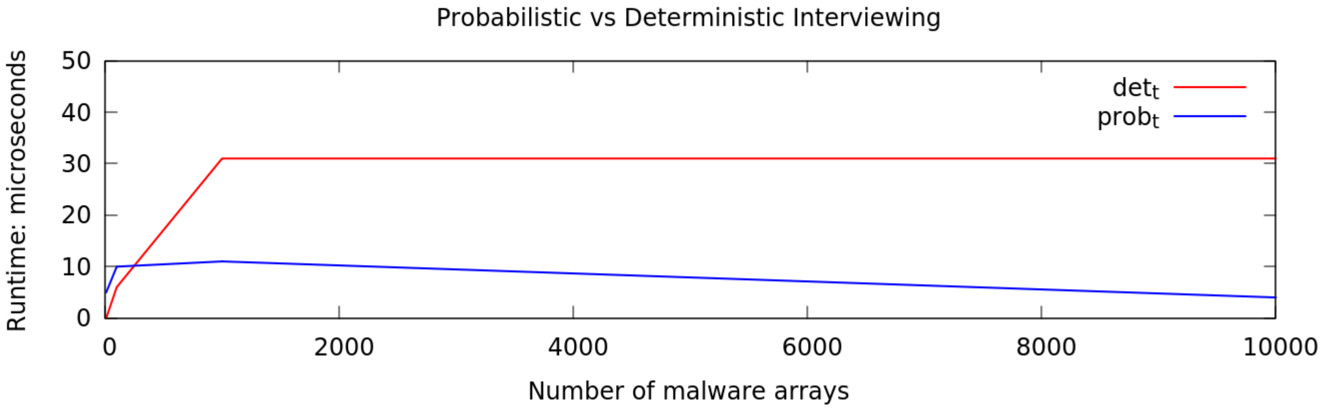
Assignment 3 CPE-593

Program Output:

```
//det: means with deterministic interviewing
//prob: means with probabilistic interviewing
//Source ID’s are integers from 1 to n

/* Malware arrays when n = 10
1 3 2 0 8 5 0 3 8 6 1
2 4 3 3 2 7 2 6 0 2 6
3 1 0 6 3 7 3 4 8 8 0
4 9 1 4 9 1 1 9 5 9 7
5 8 5 2 1 9 9 5 7 0 7
6 3 3 7 1 7 7 5 1 5 3
7 3 4 7 9 5 8 0 7 5 1
8 6 3 6 9 7 7 8 2 4 0
9 2 7 4 1 1 3 8 6 6 5
10 1 2 1 8 3 7 7 4 4 2
*/

det: n = 100 arrays: Source 45 reported a malware with maliciousness score of 70 or higher. The source found after interviewing 44 candidates.
prob: n = 100 arrays: Source 45 reported a malware with maliciousness score of 70 or higher. The source found after interviewing 156 candidates.
det: n = 1000 arrays: Source 992 reported a malware with maliciousness score of 70 or higher. The source found after interviewing 991 candidates.
prob: n = 1000 arrays: Source 992 reported a malware with maliciousness score of 70 or higher. The source found after interviewing 208 candidates.
det: n = 10000 arrays: Source 774 reported a malware with maliciousness score of 70 or higher. The source found after interviewing 773 candidates.
prob: n = 10000 arrays: Source 1419 reported a malware with maliciousness score of 70 or higher. The source found after interviewing 13 candidates.

#n          det_t       prob_t

10          0           5
100         6           10
1000        31          11
10000       31          4
```

Graph:



/ This graph looks different on different runs as chance of finding an issue is random. In this case the probabilistic method found the issue faster */*