

CSE 2321 WorkSheet 1 / Practicing for Exam 2

(Please do not share this with anyone)

March 18, 2022

Question 1.

[5 points] Do a line-by-line analysis to find the running time of the fragment shown below.

```
(1)      sum = 0;
(2)      for (i=log n; i>=1; i- -)
(3)          for (j=n; j>1; j/=2)
(4)              sum+=array[i][j];
```

(Assume that the cost of line (i) is c_i for $i = 1, 2, 3, 4$).