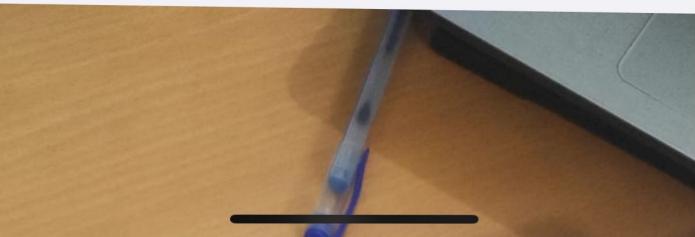
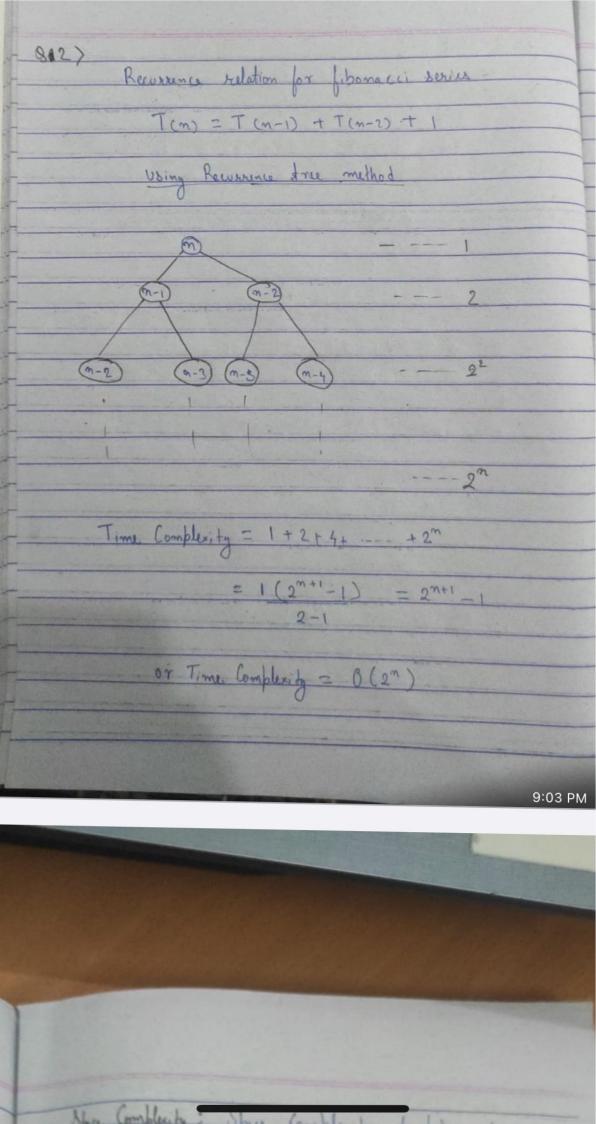
| Tutorial Sheet - 2 | |
|----------------------------|---------|
| 81) | |
| 017 | |
| Void fun (int m) { | |
| while (i(n)) | |
| while (i(m)) | |
| 1-34 | 1 1 |
| j=1+j; j++; | 0 1 |
| | 1 2 |
| 1 | 3 3 |
| 3 | 6 4 |
| Duris = 0, 1, 3, 6, 10, 15 | 15 5 |
| 11010 | |
| | |
| m = 0 + 1 + 2 + 3 + + 1 | Y |
| M = K(K+1) 2 | |
| 2 | |
| m = K2+11 | |
| 2 | |
| | |
| | |
| ~ ≅ K2 | |
| | |
| K≅ √n | |
| | |
| | |
| Time Complexity = O(vn) | |
| | |
| | |
| | - |
| | |
| | |
| | |
| | 9:03 PM |
| | 0.00111 |
| | |

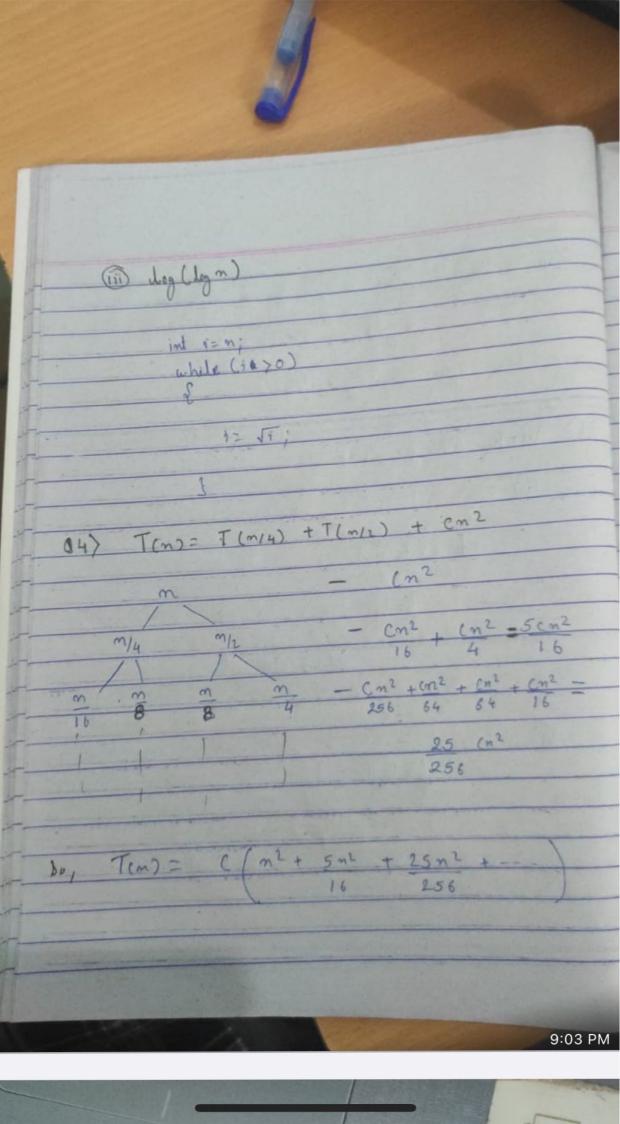




Spee Completely: Space Completely of Schoracci series to beight of recurrence tree Space Complexity = O(n) as Write code for complexity (i) mlogn for (i to n) for (j=1;j(=n;j*=2) O(1) statements (1) m3 for (i to m)

for (j to m)

for (K to m) O(1) Statements 9:03 PM



There r = 5 bi, Sm = 1 $T(n) = cn^2(1+5+25+-- = cn^2 \left(\frac{1}{1-5/16} \right)$ = Cm2: 16 Time Complexity = 8 (n2) 9:03 PM

time 1 to m (m-1)/2 (m-1)/3 (m-1)/n nlogn Time Complexity = O(mlogm) 06> for (int i=2; i(=n; i=pow (i, K)) 11 Some O (1) expressions or statements 1 = 2, 2 × 2 × 2 × 2 × 3 legm = x leg2 9:03 PM

log log m = 21 log K 2 = dag logn log2 + logk Time Complexity = O(log log n) 577 n 99n m Taking longer branch that is 99 m Time Complexity = log 100 m = leg m 9:03 PM

