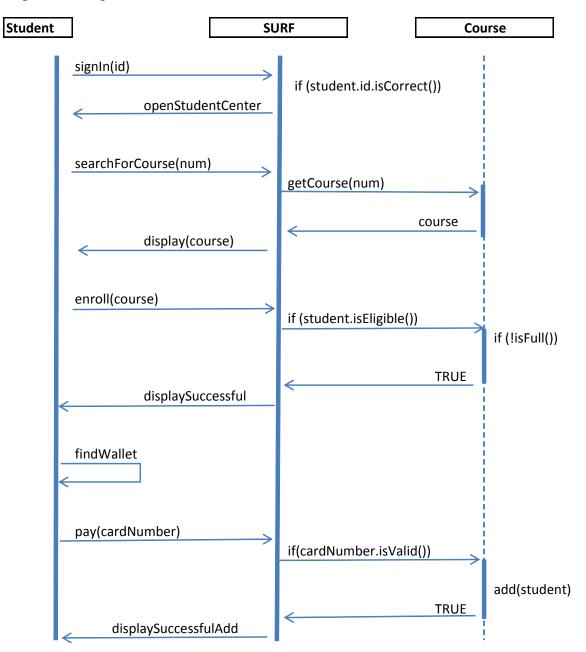


Sequence Diagram



3. Big-O Notation

a. Rank in order of increasing run times, if they are the same list them together

O(0) O(5) O(2/N) O(log N) O(\sqrt{N}) O(N) O(N^{1.5}) O(N log N) O(N²), O(NM) O(N⁴) O(2^N) O(∞)

b. What is the complexity of each piece of code?

i. O(n) ii. O(n²)

iii. O(n²)

iv. $O(n^4)$