Name of Subject with Lode:

Data Structure Lab Examination (UCS03808)

Examination Date: 24th November, 2021

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Semester ! III red Semester

Section : A

write a congram to create aquene data structure named as QUE. Demonstrate enqueue and dequeue operations using garay. # Include Kstdio. th # anclude Astolibity # Include (15mit.t) Struct BUEd 9nt Teft; int night; unsigned int capacity; typedet struct QUE OUE; void enquene (QUE * q, interta) it (a + night)= a + capacity)d

paintf ("Queue is tull \n");

return; a = an may [a = night] = data; 2-) right ++; paint (" " enquered to queue In", data);

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int deanene (OUE"a)d it (a-s left z= a s night) & printf (sucue is empty In"); neturn INT-MIN; . Int temp = an annay [anleft]; fon (int i = 0; ixa > right -1; i++)d 2 -> armay [] = Q + armay [2+1]; 9-) night --; printfl"? I dequeed from quaents, temp); neturn temp; void main () d SUE # q = (QUE*) mailoc (size of (QUE)); as espacity=2; at a rreay = ("int ") mallo ((si teot ("int) & at capacity); a-11eft 203 anight=0; enauene (9,10); enaneue (n, w); angrebled to greene ha

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March of Grander

eranone (a, 30);

dequene (a);

dequene (a);

dequene (a);

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Ocetput

- > 10 enauened to grene.
- -) 20 enqueued to queue
 - -) Quene 93 full.
 - -) 10 dequared forom queux
 - , 20 dequered from quene.
 - -) Queaue is empty

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chircadoep Banih