Doda Structure: CSC 21200 Fall 2020 Prof. George Wolberg

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Chapte 4

Midterm (Part 2: Chap 4-9)

Problem 4.1

int to Extendint [100] & 11 *P is initialize int *p=new int[100]; to an array of 100 intergers.

for (ist izo; i < 100; it+) & 11this for loop will

delete[] P;

P[i] = i; keep iterate from 0 to 99 and place

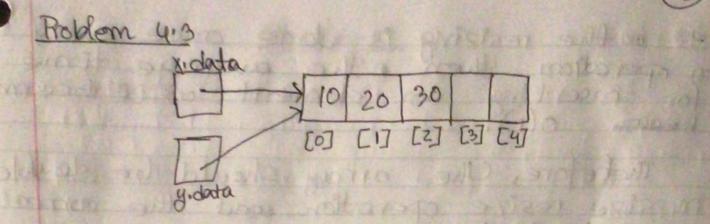
11 return the arres to the heap

Problem 2010

Froblem 4.2

a combleton

As the constants are used, we will not be able to alonge the value of p in the function definition or implementation foo. therefore, the pointer can not be modified.



As both pointers would point to the same dynamic array, any changes in x'array and well have an impact on in y'array as well. It x'array is changed, then y'array would change as well.

Problem 4.4

is a costly operation.

reserved (used + 1);

this is increasing the bag one by one through. It would required to constantly repeat the insert operation and eventually it will take up a lot of or too much memory to do the process.

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It so the resizing is done once every of operation then a the average time for inserting an element will become become

therefore, the array should be doubled in size resize operation, and the correct way should be:

reserve (2. used);

Problem 4.5

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Problem 4.6

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Problem 4.7

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Problem 4.8

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Problem 4.9

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Chapter 5

Problem 511 months at the algorithms and site

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Problem 500

B Do 41 1 (1 =1) 10

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Problem 5.4 John 19 John

Problem 5.5

the precondition and poster differen

Problem 5.6 TIME A HE NULL

Chapter 6

Problem 6:1

When A template function is used, the compiler examines the data types of arguments and automotically determines the data type of Hermiteam, & Therefore, we do not have to recompile files. It reduces the repetition of code.

(5)

Roblem 6.2

the bug is it is replicating the values over and over again. It is over-riding data. The value of data [0] is being copied throughout the entire array.

Correct code:

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for (i= 12; i>0; i+-) {

data [i] = data[i-1];

Problem 6:3

are given.

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assert (head-ptr 1 = NULL)
node < Hem >* temp;
temp = head-ptr;
head-ptr = head-ptr > link();
delete temp;

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Problem 6.4

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Problem 6:5

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Problem 6.6

Problem 6.7

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Problem 711

Problem 7.2

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Problem 7.3

Chapter 8 Problem 8.1 C

Problem 8:2

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Problem 9.1

include < postneam > using namespace std; int print (int x) {

if (x <) { // terminating condition return 0;

cout << " I"; // printing " I".

print (x-D; // calling the function.

cout &< " -"; // printing " - " (underseave)

Roblem 9:2

the preconditions and post conditions are given.

Coole: # include xiostream>
int main()?
int n, temp; "calling variable

cin >>n; "coulting variable

cin >>n; "imput n

temp = n; "initializing temp = n

cout << "The List is: " << end!

"outputing the list

do ?

cout << n << end!;

n = n = 2; "n mut doubling n

3

while (n < 4242) (s);

cout << n << endl; "int will prin n

do i

cout << n << endl;

n = n/2 // Biving the n

while (n) = temp); // condition.

While (n) = temp); // condition.

Problem 913

D

Problem 9:4

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