[ Ravi Patel ] Instructor: Dr. Hindo

CPSC 230

Chapter 8 - lab assignment

Due date: End of the class time

1. **Replace** the word “even” with “only”, then **erase** the initial word “But” and “don’t” in the following string “ But I have heard it works, even if you don’t believe in it”

//CPSC 230 RAVI PATEL ASSIGNMENT 8 Q2

#include <iostream>

using namespace std;

void f(string);

string s = ("But I have heard it works, even if you don't believe in it");

int main(int argc, char \*argv[]) {

f(s);

cout<<s;

}

void f(string)

{

s.replace(s.replace(s.replace(0,4,"").find("even"),4,"only").find("don't"),6,""); //04 for but, switch even 4 only, find don't and erase it

}

**OUTPUT:**

**I have heard it works, only if you believe in it**

1. Write a program that reads a person’s name in the following format: first name, last name and birth - year. The program then outputs the password as the following format: Last\_Name, two letters from the initial and the most two right digits of birth –year

//CPSC 230 RAVI PATEL ASSIGNMENT 8 Q2

#include <iostream>

using namespace std;

struct User

{

string firstName,lastName, birthYear;

};

int main()

{

User u; //set u as type User

cout << "Please enter your first name : "; //ask user input

cin >> u.firstName; //assign user input

cout << "Please enter your last name : "; //ask user input

cin >> u.lastName; //assign user input

cout << "Please enter your birth year : "; //ask user input

cin >> u.birthYear; //assign user input

cout << "\nPassword: " << u.lastName << u.firstName.substr(0,2) << u.birthYear.substr(2,3); //cout password

return 0; //catch all

}

**OUTPUT:**

**Please enter your first name : ravi**

**Please enter your last name : patel**

**Please enter your birth year : 1099**

**Password: patelra99**

1. Create two vectors v1={10, 20,30,40} and v2={100, 200, 300, 400, 500, 600, 700}. Add an item after the second location of v1.

//CPSC 230 RAVI PATEL ASSIGNMENT 8 Q3

#include <iostream>

#include <vector>

using namespace std;

void fillVector(vector<int> &v);

int main(int argc, char \*argv[]) {

vector<int> v1;

v1.push\_back(10); v1.push\_back(20); v1.push\_back(25); v1.push\_back(30); v1.push\_back(40);

vector<int> v2;

v2.push\_back(100); v2.push\_back(200); v2.push\_back(300); v2.push\_back(400); v2.push\_back(500); v2.push\_back(600); v2.push\_back(700);

for(int i=0; i<5; ++i)

cout << v1[i] << ' ';

cout<<endl;

for(int i=0; i<7; ++i)

cout << v2[i] << ' ';

}

**OUTPUT:**

**10 20 25 30 40**

**100 200 300 400 500 600 700**

1. Using vector class library, read 20 numbers from a file and push into a vector “vect1”. Then write a function that swap the first element in the list with the last element in the list value.

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