Muhammed Bedir DLUGAY 1301042697 Milleray CSE-241-501 Middern Session III I hereby pledge that Iwill strictly adhere to academic integrity codes and the work done on this examination is salely my own and I will not receive sive any help from/to agody or source during this examination Design and implement a C++ class to represent a foson Your class will have the -- A constructor that takes all parameters (name, last Name, age, genotes) - A function return exsisting Person obj. - Overload << overload == != Overload pre and post increment operators that increment personage 1 - Overload < compones personage - Error checking class Person 2 · public: Person (); Person (strong name, strong lastName, int age, strong gender); Static int get Counter (); void set Age (int x); friend ostream & operatorice (ostream & sout, const Person & obj): bool operator == (const Person & obj) const; bool operator = (const Person Rob;) const; Person operator ++(); Person operator ++ (in+); bool operator (const Person & obj) const; Private: string name; string last Name;

> int age; string gender;

static int counter?

```
Int Person :: counter = 0;
 Person: Person (): none (""), last Name (""), age (-1), gender ("")
  ¿ counter ++; }
 Person: Person (otring name, string lastName, int age, string gender)
       . none ( name), bust Name (lastAlone), age (age), gender (gender)
  ¿counter ++;}
 int Person :: get Counter () {
 3 return counter;
 Ostream & operator ( (ostream & sout, const Person & obj) &
     sout < obj. nome < " " < obj. last Name < " 'n";
     Sout << obj. gerder << "\n";
 3 return sout;
bool Person: operator == (const Person & obj ) const &
    return ( name == 0 bj. name & & last None == 0 bj. last None & &
            age = = obj.age BB gender = = obj.gender);
bool Person :: operator != (const Person Robj) const?
   return ! (*this == obj);
Person Person: operator ++ () &
    age ++;
 return *this;
Person Person: operator ++ (int ignore) &
    Person top (*this);
     + +("this);
    cetor two;
```

```
bool Person: operator ((const Person & obj) const &
3 return age < obj. age;
void Person: set Age (int x) & literor checking
     if (x<0) }
         couter " Age cannot be regetive" ex end ;
      age = x;
Int mass () }
   Persona ("Al; ", "GIMOS, 23, "Male");
   Person bil "Veli", "Atin, 10, "Mole");
    contea; cont ecb;
   if (acb)
    cout " a is younger In";
   else de la sont younger la";
   if (0 == b)
       cout "They are equal";
  else cout "not equal"?
   couter Person : ; get Static ();
```