Quiz 4:

Congratulations all for making this far!!

1. Given a class definition, which one correctly define an object of this class?
   class holiday
   {
           public:
                   int year;
                   int month;
                   int day;
   };

   a. holiday h;
   b. Holiday year;
   c. Class month;
   d. Date d;

2. Given the same class as in question 1, after defining an object h1, which one correctly use the part of the class?

   a. h1->year = 2020;
   b. h1.year = 2020;
   c. h2.year = 2020;
   d. (*h1).year = 2020;

3. Given the same class as in question 1, after defining an array object h[100] of the class, which one correctly access and write the value for the 10th element in the array?
   a. h[10].year =2020;
   b. h[10]->year = 2020;
   c. h[9]-> year = 2020;
   d. h[9].year = 2022;

4. given an char array, char_array[100], which one correctly assign "happy" to this array?
   a. char_array[0] = 'h'; char_array[1] = 'a'; char_array[2] = 'p'; char_array[3] = 'p'; char_array[4] = 'y';
   b. char_array[0] = 'h'; char_array[1] = 'a'; char_array[2] = 'p'; char_array[3] = 'p'; char_array[4] = 'y'; char_array[5] = '\0';
   c. char_array[0] = "h"; char_array[1] = "a"; char_array[2] = "p"; char_array[3] = "p"; char_array[4] = "y"; char_array[5] = "\0";

d. char_array[1] = 'h'; char_array[2] = 'a'; char_array[3] = 'p'; char_array[4] = 'p';
    char_array[5] = 'y'; char_array[6] = '\0';

5. given a string variable, string str; str = "Friday", after doing str.append(" happy."), which
    one is the correct result of string str?
    a. Fridayhappy.
    b. happy. Friday
    c. Friday happy.
    d. happy.Friday

6. Given the below code, what's the printed-out result?

```
Class Date{
      public:
              int year;
              Date();
              Date(int yr);
              void print();
};

Date:: Date(){ year = 2099; }
Date:: Date(int yr){year = yr}

int main(){
      Date d(2022);
      Cout << d.year <<endl;
      return 0;
}
```

    a. 2099   b.2022   c. 2020   d.0.

7. Given the below code, what's the printed-out result?

```
int num;
int *p;
num = 100;
*p = 50;
cout << *p << endl;
```

    a. 100   b. 50   c. 150   d.1800