Output and error tracing question

```
** Unticked checkboxes are the answers.
1.
      int[,] arr = new int[,] { { 1, 2, 3 }, { 4, 5, 6 } }; // line 1
      for(int i=0; i<arr.GetLength(0); i++)</pre>
                   for(int j=0; j<arr.GetLength(1); j++)</pre>
                    {
                          Console.Write(arr[i,j]+" ");
                    }
      }
What will be the output of this code?
   □ 123456
   ☑ Error for line 1 because array size (row and column) not given.
2.
      int[,] arr = new int [2, 2];
      arr[0, 0] = 1; arr[0, 1] = 2; arr[1, 0] = 3; arr[1, 1] = 4;
      // data stored in arr like this
      // 12
      // 3 4
      for(int i=0; i<arr.GetLength(0); i++)</pre>
      {
             for(int j=0; j<arr.GetLength(1); j++)</pre>
             {
                    Console.Write(arr[j, i] +" ");
             }
      }
Output of this code?
   □ 1324
```

 3. An array in c# can contain elements of multiple data types. ☐ True ☐ False 4. 2d array in c# must have same column length for every row. ☐ True ☑ False
5. Jagged array can contain elements of multiple data types.☑ True☐ False
 6. How many maximum elements can hold this array, int [, , ,] arr = new int [3, 2, 4, 2]; ✓ (3*2) + (4*2) ✓ 3+2+4+2 ✓ 3*2*4*2 ✓ (3*2*4)+2
 7. Which object oriented feature provides reusability? ☐ Inheritance ☐ Polymorphism ☑ Abstraction ☑ Overloading
8. Child class can access only the public ,internal and protected property of the parent class. ☐ True ☐ False
 9. Parent class can access only the public ,internal and protected property of the child class. ☑ True ☐ False

```
class Parent
      {
            public Parent()
            {
                  Console.Write("Parent"+" ");
            }
      }
      class child: Parent
      {
            public child()
                  Console.Write("Child"+" ");
            }
      }
      class Program
      {
            static void Main(string[] args)
            {
                  child c = new child();
                  Console.ReadKey();
            }
      }
Output of the code.

☑ Child

☑ Parent

   ☐ Parent Child
```

```
11.
      class Parent
            protected int money;
            public Parent(int m)
            {
                   Console.Write("Parent" + " "+money+" ");
                   this.money = m;
            }
      }
      class Child: Parent
      {
            public Child(int m):base(m)
                   Console.Write("Child"+" "+money+" ");
                   this.money = m;
            }
      }
      class Program
            static void Main(string[] args)
            {
                   Child c = new Child(500);
                   Parent p = new Parent(1000);
                   Console.ReadKey();
            }
      }
What will be the output of this code?
   ☑ Child 500 Parent 1000
   ☐ Parent 0 Child 500 Parent 0
   Parent 500 Child 500 Parent 1000

☑ Parent 0 Child 0 Parent 0
```

```
12.
      class GrandParent
             int value;
             public GrandParent(int a)
             {
                    this.value = a;
                    Console.Write(value + " ");
             }
      }
      class Parent: GrandParent
      {
             int value;
             public Parent(int a):base(a*2)
                    this.value = a;
                    Console.Write(value + " ");
             }
      }
      class Child: Parent
             int value;
             public Child(int a):base(a*2)
             {
                    this.value = a;
                    Console.Write(value + " ");
             }
      }
      class Program
      {
             static void Main(string[] args)
             {
                    Child c = new Child(2);
                    Console.ReadKey();
```

Output of the code.

}

}

☑ 0-0-0

□ 842