



1. Person Details

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Coding REJECTED



Your task here is to implement a C# code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider default visibility of classes, data fields and methods unless mentioned otherwise.

Specifications:

```
class definitions:  
    class Person:  
        method definitions:  
            Name: Implement getter setter method (use  
            Auto Implementation Property)  
            visibility: public  
            return type: string  
            Address: Implement getter setter method  
            (use Auto Implementation Property)  
            visibility: public  
            return type: string  
            Age: Implement getter setter method (use  
            Auto Implementation Property)  
            visibility: public  
            return type: int  
        class PersonImplementation:  
            GetName(IList<Person> person): display the  
            name and address of all the persons in the List  
            return type: String  
            visibility: public  
  
            Average(IList<Person> person): Method to
```

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```
Average(ILIST<Person> person): Method to  
calculate the average score  
return type: double  
visibility: public
```

```
Max(ILIST<Person> person): Method to  
calculate the maximum Age  
return type: int  
visibility: public
```

Task:

- Create a class **Person** with attributes string **Name**, string **Address** and int **age** and define getter setter method using **Auto Implementation Property**
- Create a class **PersonImplementation** and implement the below given methods:
 1. **GetName(ILIST<Person> person)** display the name and address of all the persons in the List
 2. **Average(ILIST<Player> players)** to calculate the *average age* of all the persons.
 3. **Max(ILIST<Player> players)** to find the *maximum age* of the person.

Sample Input

```
ILIST<Person> p = new List<Person>();  
p.Add(new Person {Name = "Aarya", Address =  
"A2101", Age = 69});  
p.Add(new Person {Name = "Daniel", Address =
```

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the person.

Sample Input

```
IList<Person> p = new List<Person>();  
    p.Add(new Person {Name = "Aarya", Address =  
"A2101", Age = 69});  
    p.Add(new Person {Name = "Daniel", Address =  
"D104", Age = 40});  
    p.Add(new Person {Name = "Ira", Address =  
"H801", Age = 25});  
    p.Add(new Person {Name = "Jennifer", Address  
= "I1704", Age = 33});
```

Sample Output

```
Aarya A2101 Daniel D104 Ira H801 Jennifer I1704  
41.75  
69
```

IMPORTANT:

- If you want to test your program you can implement a **Main()** method given in the stub and you can use **RUN CODE** to test your Main(), provided you have made valid function calls with valid data required.

Execution time limit

5 seconds

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Coding

ACCEPTED



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Method Overloading is the common way of implementing polymorphism. C# can distinguish the methods with **different method signatures**. i.e. the methods can have the same name but with different parameters list (i.e. the number of the parameters, order of the parameters, and data types of the parameters) within the same class.

Your task here is to implement a **C#** code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider default visibility of classes, data fields and methods unless mentioned otherwise.

Specifications:

```
class definitions:  
    class Source:  
        method definitions:  
            Add(int a, int b, int c) : Method to  
            add three integer values  
                return type: int  
                visibility: public  
            Add(double a, double b, double c) :  
                Method to add three double values  
                return type: double  
                visibility: public
```

Task:

Create a class **Source**, your task here is to demonstrate the function overloading by changing the data types of the parameters.

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```
method definitions:  
    Add(int a, int b, int c) : Method to  
add three integer values  
        return type: int  
        visibility: public  
    Add(double a, double b, double c) :  
Method to add three double values  
        return type: double  
        visibility: public
```

Task:

Create a class **Source**, your task here is to demonstrate the function overloading by changing the data types of the parameters.

Implement the below given methods:

- **Add(int a, int b, int c)** : Method to add three integer values
- **Add(double a, double b, double c)** : Method to add three double values

IMPORTANT:

- 5
- If you want to test your program you can implement a **Main()** method given in the stub and you can use **RUN CODE** to test your Main(), provided you have made valid function calls with valid data required.

Execution time limit

5 seconds

Having an issue with this question? Report

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Coding

ATTEMPTED



Prepare Bill:

This problem is create the bill and find the total amount of the bill.

Your task here is to implement a **C#** code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider **default visibility** of classes, data fields and methods are public unless mentioned otherwise.

Specification:

```
class definition:  
    enum CommodityCategory: Furniture, Grocery,  
    Service  
  
class Commodity:  
    visibility : default  
    constructor : Commodity(CommodityCategory  
category, string commodityName, int  
commodityQuantity, double commodityPrice)  
    visibility : public  
    member property : Category  
    return type : CommodityCategory  
    visibility : public  
    member property : CommodityName  
    return type : string  
    visibility : public  
    member property : CommodityQuantity  
    return type : int  
    visibility : public  
    member property : CommodityPrice
```

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```
member property : CommodityPrice
return type : double
visibility : public
class PrepareBill:
    visibility : default
    member variable : _taxRates
    type : readonly
    return type : IDictionary<CommodityCategory,
double>
    visibility : private
    constructor : PrepareBill()
    visibility : public ↗
    member definition :
SetTaxRates(CommodityCategory category, double
taxRate)
    return type : void
    visibility : public
    member definition :
CalculateBillAmount(IList<Commodity> items)
    visibility : public
    return type : double
```

Task:

enum CommodityCategory:

- Define the enum as mentioned in specification.

class Commodity:

- Define the class as mentioned in specification.

class PrepareBill:

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- PrepareBill(): Initializes _taxRates with empty dictionary.
- SetTaxRates(CommodityCategory category, double taxRate): Accepts commodity category and tax of that category and then adds to _taxRates. If the tax is already added to CommodityCategory then it should not add to _taxRates.
- CalculateBillAmount(IList<Commodity> items): It accepts a list of commodities and it should return the total amount of the bill. If the commodity category is not present in the _taxRates, then it should throw ArgumentException.

Sample input:

```
var commodities = new List<Commodity>()
{
    new Commodity(CommodityCategory.Furniture,
    "Bed", 2, 5000),
    new Commodity(CommodityCategory.Grocery,
    "Flour", 5, 80),
    new Commodity(CommodityCategory.Service,
    "Insurance", 8, 8500)
};
var prepareBill = new PrepareBill();
prepareBill.SetTaxRates(CommodityCategory.Furnit
18);
    prepareBill.SetTaxRates(CommodityCategory.Grocer
5);
    prepareBill.SetTaxRates(CommodityCategory.Service
12);
```

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```
    new Commodity(CommodityCategory.Grocery,
    "Flour", 5, 80),
    new Commodity(CommodityCategory.Service,
    "Insurance", 8, 8500)
};

var prepareBill = new PrepareBill();
prepareBill.SetTaxRates(CommodityCategory.Furniture,
18);

prepareBill.SetTaxRates(CommodityCategory.Groceries,
5);

prepareBill.SetTaxRates(CommodityCategory.Services,
12);

var billAmount =
prepareBill.CalculateBillAmount(commodities);
Console.WriteLine($"{billAmount}");
```

Sample output:

194580

Note:

- You can make suitable function calls and use **the RUN CODE** button to check your **main()** method output.

Execution time limit

2 seconds

Having an issue with this question? Report

Broadband plans

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Coding ATTEMPTED



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Broadband Plans:

This problem is related to implementing the functionality of getting the broadband subscription plan based as per the criteria mentioned below.

Your task here is to implement a C# code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider **default visibility** of classes, data fields and methods are public unless mentioned otherwise.

Specifications:

```
class definition:  
interface IBroadbandPlan:  
    visibility : default  
  
member definition :  
    GetBroadbandPlanAmount();  
    return type : int  
    visibility : default  
  
class Black : IBroadbandPlan  
    visibility : default  
  
member field:  
    _isSubscriptionValid  
    visibility : private  
    return type : bool  
    type : readonly
```

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```
    _percentage
        visibility : private
        return type : int
        type : readonly

    PlanAmount = 3000
        visibility : private
        return type : int
        type : const

    constructor : Black(bool isSusbcritionValid, int
discountPercentage)
        visibility : public

method definition :
    GetBroadbandPlanAmount()
        visibility : public
        return type : int

class Gold: IBroadbandPlan
    visibility : default

member field :
    _isSubscriptionValid
        visibility : private
        return type : bool
        type : readonly

    _discountPercentage
        visibility : private
```

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```
_discountPercentage
    visibility : private
    return type : int
    type : readonly

    PlanAmount = 1500
    visibility : private
    return type : int
    type : const

constructor : Gold(bool isSubscriptionValid, int
discountPercentage)
    visibility : public

member definition :
    GetBroadbandPlanAmount()
    visibility : public
    return type : int

class SubscribePlan :
    member field :
        _broadbandPlans
        visibility : private
        return type : IList<IBroadbandPlan>
        type : readonly

    constructor :
        SubscribePlan(IList<IBroadbandPlan> broadbandPlans)
        visibility : public
```

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```
constructor :  
SubscribePlan(IList<IBroadbandPlan> broadbandPlans)  
    visibility : public  
  
member definition :  
    GetSubscriptionPlan()  
        visibility : public  
        return type : IList<Tuple<string, int>>
```

Task:

class Black:

- **Black(bool isSubscriptionValid, int discountPercentage):** Accepts two parameters and initializes _isSubscriptionValid and _discountPercentage. It should throw ArgumentOutOfRangeException if discountPercentage is less than 0 and greater than 50.
- **int GetBroadbandPlanAmount():** If the subscription is valid then it should return the discounted price otherwise it should return the normal price.

class Gold:

- **Gold(bool isSubscriptionValid, int discountPercentage):** Accepts two parameters and initializes _isSubscriptionValid and _discountPercentage. It should throw ArgumentOutOfRangeException if discountPercentage is less than 0 and greater than 30.
- **int GetBroadbandPlanAmount():** If the subscription is valid

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Sample input:

```
var plans = new List<IBroadbandPlan>
{
    new Black(true, 50),
    new Black(false, 10),
    new Gold(true, 20)
};
```

⚠ Slow Internet Connection X

```
var subscriptionPlans = new
```

discountPercentage): Accepts two parameters and initializes _isSubscriptionValid and _discountPercentage. It

should throw ArgumentOutOfRangeException if discountPercentage is less than 0 and greater than 30.

- **int GetBroadbandPlanAmount():** If the subscription is valid then it should return the discounted price otherwise it should return the normal price.

class SubscribePlan:

- **SubscribePlan(IList<IBroadbandPlan>**

broadbandPlans): Accepts a list of Broadband Plans and initializes the _customers field. If the input null than it should throw ArgumentNullException.

- **IList<Tuple<string, int>> GetSubscriptionPlan():** It should return a list which contains plan type and its subscription plan amount. If _broadbandPlans is null than it should throw ArgumentNullException.

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```
new Black(true, 50),  
new Black(false, 10),  
new Gold(true, 30),  
new Black(true, 20),  
new Gold(false, 20)  
};  
  
var subscriptionPlans = new  
SubscribePlan(plans);  
  
var result =  
subscriptionPlans.GetSubscriptionPlan();  
  
foreach (var item in result)  
{  
    Console.WriteLine($"{item.Item1},  
{item.Item2}");  
}
```

C#

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Sample output:

```
Black, 1500  
Black, 3000  
Gold, 1050  
Black, 2400  
Gold, 1500
```

Note:

- You can make suitable function calls and use the **RUN CODE** button to check your **main()** method output.

Execution time limit

2 seconds

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5. Student Scholarship

Coding

UNRESOLVED



C#

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Problem Description

Your task here is to implement a C# code based on the following specifications. Note that your code should match the specifications in a precise manner. Consider default visibility of classes, data fields and methods unless mentioned otherwise.

Specifications

Delegate definitions:

```
IsEligibleforScholarship(Student std)  
return type: bool  
visibility: public
```

Class Student:

Auto implemented Properties

```
RollNo : int  
visibility: public  
Name: string  
visibility: public  
Marks: int  
visibility: public  
SportsGrade: char  
visibility: public
```

Method definitions:

```
static GetEligibleStudents(List<Student>  
studentsList, IsEligibleforScholarship isEligible)  
return type: string  
visibility: public
```

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left

```
    static GetEligibleStudents(List<Student>
studentsList, IsEligibleforScholarship isEligible)
    return type: string
    visibility: public
```

Class Program

Method **definitions:**

```
static ScholarshipEligibility(Student std)
return type : bool
visibility: public
```

Help

All

Task

- Create **Program** class and implement below given method
- static **ScholarshipEligibility(Student std)** - Return whether student is eligible for scholarship.
- Create **Student** Class and implement below given method
- static **GetEligibleStudents(List<Student> studentsList, IsEligibleforScholarship isEligible)** - returns comma separated list of eligible students.
- Create **delegate** as below
- **IsEligibleforScholarship(Student student)** - return true or false.
- Below are criteria for student to eligible for scholarship
 1. Marks of student should be more than 80.
 2. SportsGrade of student should be 'A'.
 3. Pass list of students and call delegate to check eligibility.

Sample Input



Google recommends setting Chrome as default

[Set as default](#)



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1. Marks of student should be more than 80.
2. SportsGrade of student should be 'A'.
3. Pass list of students and call delegate to check eligibility.

Sample Input

```
List<Student> lstStudents = new List<Student>()  
;  
Student obj1 = new Student() { RollNo = 1,  
Name = "Raj", Marks = 75, SportsGrade = 'A' };  
Student obj2 = new Student() { RollNo = 2,  
Name = "Rahul", Marks = 82, SportsGrade = 'A' };  
Student obj3 = new Student() { RollNo = 3,  
Name = "Kiran", Marks = 89, SportsGrade = 'B' };  
Student obj4 = new Student() { RollNo = 4,  
Name = "Sunil", Marks = 86, SportsGrade = 'A' };
```

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Sample Output

```
Rahul, Sunil
```

IMPORTANT

- If you want to test your program you can implement a **Main()** method and you can use **RUN CODE** to test your Main(), provided you have made valid function calls with valid data required.

Execution time limit

5 seconds

Having an issue with this question? [Report](#)

```
7     →    public·int·Age·{·get;·set;·}·
8   }·
9
10    public·class·PersonImplementation
11  ↘ {·
12    →    public·string·GetName(IList<Person>·persons)
13  ↘ {·
14    →    string·result·=·"";
15    →    foreach(var·i·in·persons)
16  ↘ {·
17    →    result·+=·"${i.Name}·{i.Address}·";
18    →    }
19    →    return·result;
20  }·
21
22    →    public·double·Average(IList<Person>·persons)
23  ↘ {·
24    →    double·sum·=·0;
25    →    double·count·=·0;
26    →    foreach(var·i·in·persons)
27  ↘ {·
28    →    sum·+=·i.Age;
29    →    count++;
30  }·
31    →    return·sum/count;
32  }·
33
34    →    public·int·Max(IList<Person>·persons)
35  ↘ {·
36    →    int·max·=0;
37  ↘ {·
38    →    foreach(var·i·in·persons){
39    →    if(i.Age>max)
40    →    max·=·i.Age;
41    →    }
42    →    return·max;
43  }·
```

Test Results

Custom Input



Google recommends setting Chrome as default

[Set as default](#)

- Create a class **Person** with attributes string **Name**, string **Address** and int **age** and define getter and setter method using **Auto Implementation Property**
- Create a class **PersonImplementation** and implement the below given methods:
 1. **GetName(IList<Person> person)** display the name and address of all the persons in the List
 2. **Average(IList<Player> players)** to calculate the *average age* of all the persons.
 3. **Max(IList<Player> players)** to find the *maximum age* of the person.

Sample Input

```
IList<Person> p = new List<Person>();  
p.Add(new Person {Name = "Aarya", Address = "A2101", Age = 69});  
p.Add(new Person {Name = "Daniel", Address = "D104", Age = 40});  
p.Add(new Person {Name = "Ira", Address = "H801", Age = 25});  
p.Add(new Person {Name = "Jennifer", Address = "I1704", Age = 33});
```

Sample Output

```
Aarya A2101 Daniel D104 Ira H801 Jennifer I1704  
41.75  
69
```

IMPORTANT:

- If you want to test your program you can implement a **Main()** method given in the stub and you can use **RUN CODE** to test your Main(), provided you have made valid function calls with valid data required.

Execution time limit

5 seconds

Having an issue with this question? [Report](#)

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