Nom | Prenom | N° Etudiant

Controle N1

MksjBCc3

What will be the output of the code?

```
def filter_odd_numbers(numbers):
          return [num for num in numbers if num % 2 != 0]

        nums = [2, 3, 4, 5, 6]
        filtered = filter_odd_numbers(nums)
        print(filtered)
```

- [2, 4, 6]
- [3, 5]
- [2, 4, 6, 3, 5]
- [3, 4, 5]

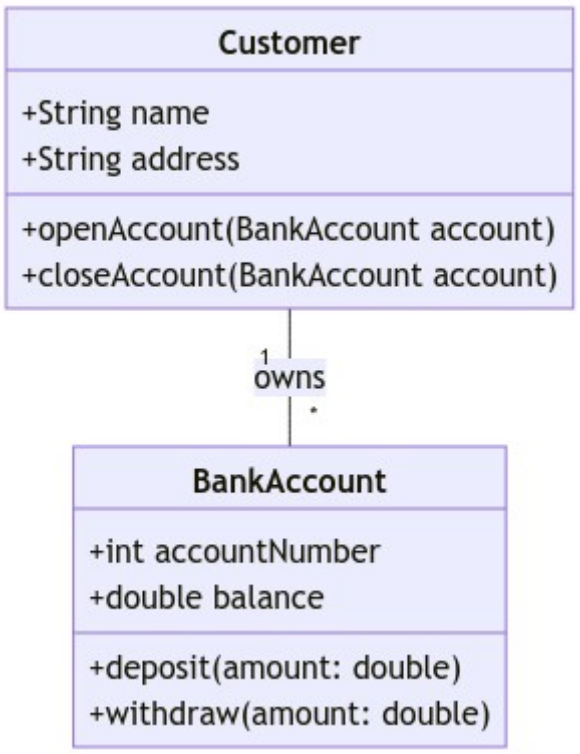
wAD21uWg

What will be the output of the code?

```
numbers = [1, 2, 3, 4, 5]
        squared_numbers = [x**2 for x in numbers if x % 2 == 0]
        print(squared_numbers)
```

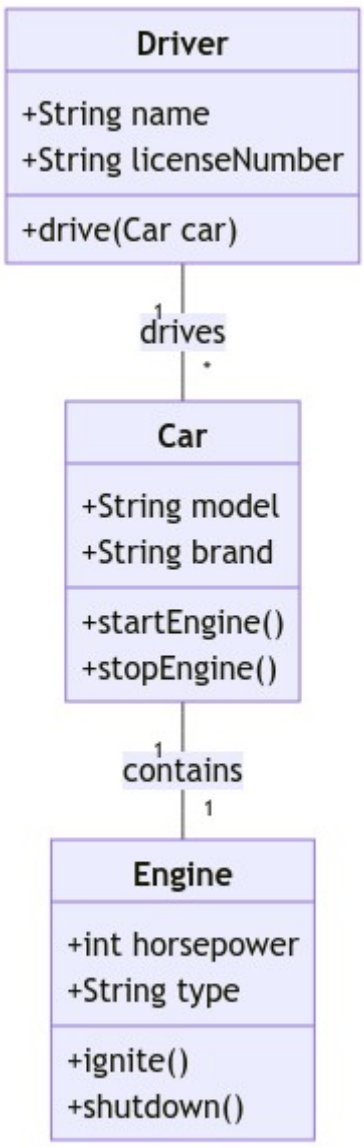
- [1, 4, 9, 16, 25]
- [1, 9, 25]
- [4, 16]
- [2, 4]

What type of relationship is shown between the Customer and BankAccount classes?



- Inheritance
- Aggregation
- Composition
- Association

What type of relationship exists between the Car and Engine classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

yHT7UDhl

What will be the output of the code?

```
def append_value(lst, value=None):
          if value is not None:
            lst.append(value)
          return lst

        my_list = [1, 2, 3]
        result = append_value(my_list, 4)
        print(result)
```

- [1, 2, 3]
- [1, 2, 3, 4]
- [4]
- [1, 2, 3, None]

hjbpbt0e

What will be the output of the code?

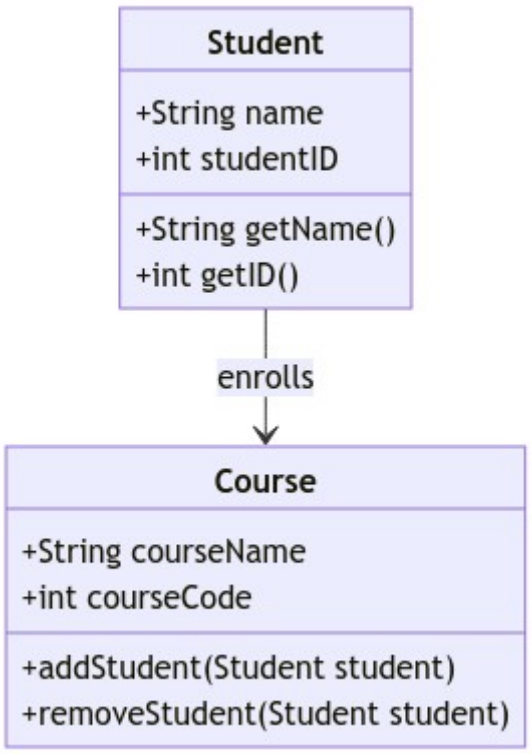
```
def update_dict(d, key, value):
          d[key] = value
          return d

        my_dict = {'a': 1, 'b': 2}
        result = update_dict(my_dict, 'b', 3)
        print(result)
```

- {'a': 1, 'b': 2}
- {'a': 1, 'b': 3}
- {'a': 1, 'b': '3'}
- {'a': 1, 'b': 2, '3': 3}

kO40y4WW

What is the diagram's relationship between the Student and Course classes?



- The Student class inherits from the Course class.
- The Student class is associated with the Course class.
- The Course class is an interface implemented by Student.
- The Student class is composed of the Course class.

2QQeJ5u0

What will be the output of the code?

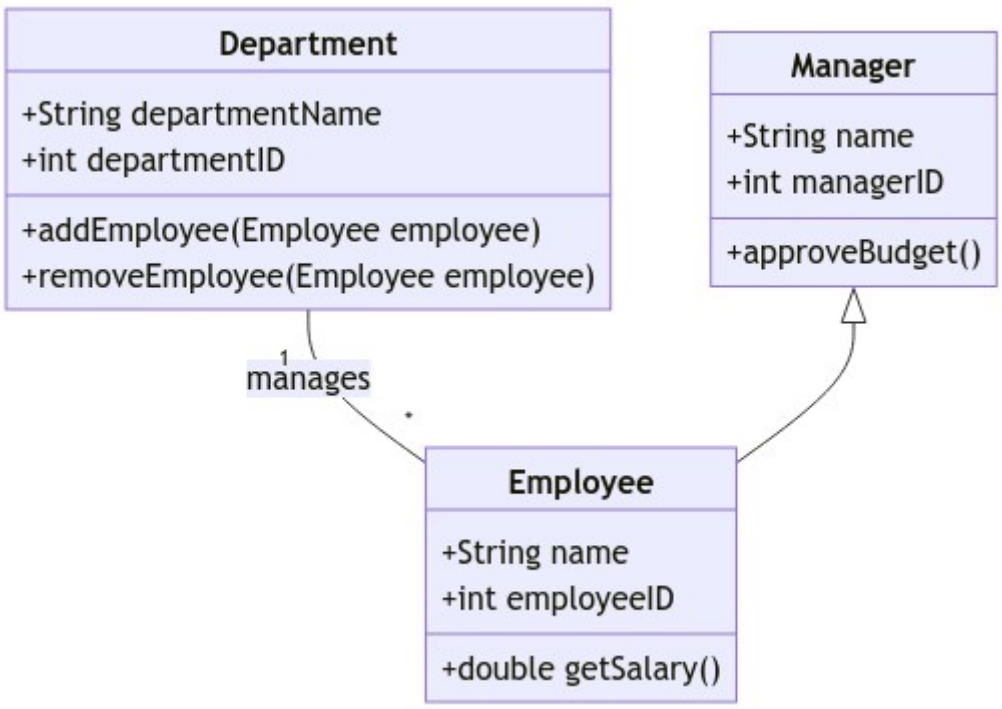
```
def calculate_sum(a, b=5):
          return a + b

       result = calculate_sum(10)
       print(result)
```

- 10
- 15
- 5
- Error

ZO8zvWTK

What is the relationship between the Manager and Employee classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

IiLilloV

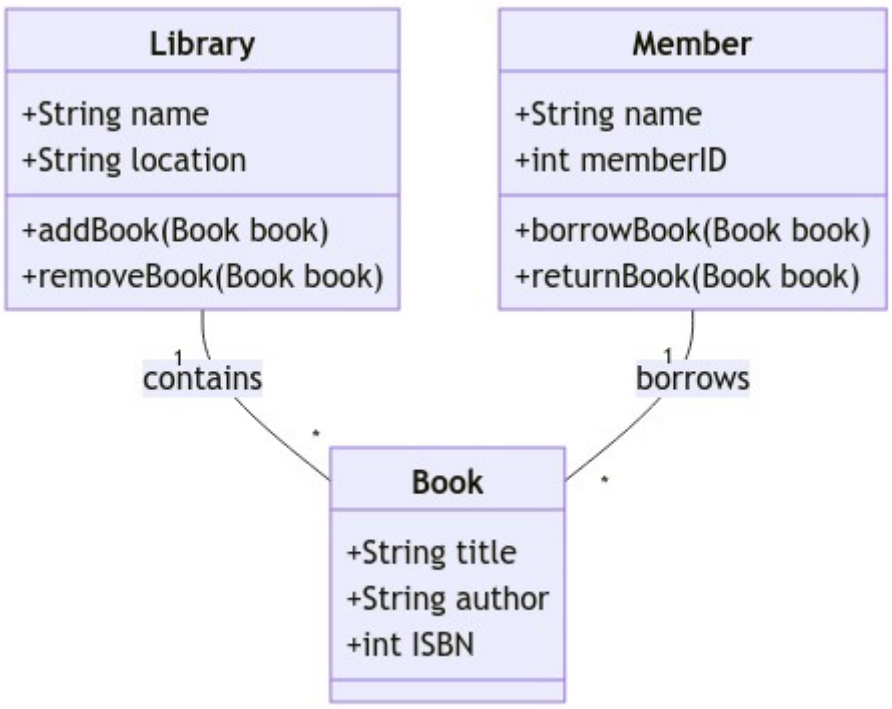
Using the table below, determine the molarity of each solution if the total volume is 1 liter.

Solute	**Mass (g)**	**Molar Mass (g/mol)**
Sodium Hydroxide (NaOH)	40	40.0
Potassium Chloride (KCl)	74	74.0
Calcium Chloride ($CaCl_2$)	147	147.0
Ammonium Nitrate (NH_4NO_3)	80	80.0

- (NaOH): 1.0 M;(KCl): 1.0 M;($CaCl_2$): 1.0 M;(NH_4NO_3): 1.0 M
- (NaOH): 0.5 M;(KCl): 0.5 M;($CaCl_2$): 0.5 M;(NH_4NO_3): 0.5 M
- (NaOH): 1.0 M;(KCl): 0.5 M;($CaCl_2$): 0.68 M;(NH_4NO_3): 1.0 M
- (NaOH): 0.8 M;(KCl): 1.0 M;($CaCl_2$): 1.0 M;(NH_4NO_3): 0.8 M

G2cKYu7b

What type of relationship exists between the Library and Book classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

Nom | Prenom | N° Etudiant

Controle N2

hjbpbt0e

What will be the output of the code?

```
def update_dict(d, key, value):
          d[key] = value
          return d

        my_dict = {'a': 1, 'b': 2}
        result = update_dict(my_dict, 'b', 3)
        print(result)
```

- {'a': 1, 'b': 2}
- {'a': 1, 'b': 3}
- {'a': 1, 'b': '3'}
- {'a': 1, 'b': 2, '3': 3}

wAD21uWg

What will be the output of the code?

```
numbers = [1, 2, 3, 4, 5]
        squared_numbers = [x**2 for x in numbers if x % 2 == 0]
        print(squared_numbers)
```

- [1, 4, 9, 16, 25]
- [1, 9, 25]
- [4, 16]
- [2, 4]

2QQeJ5u0

What will be the output of the code?

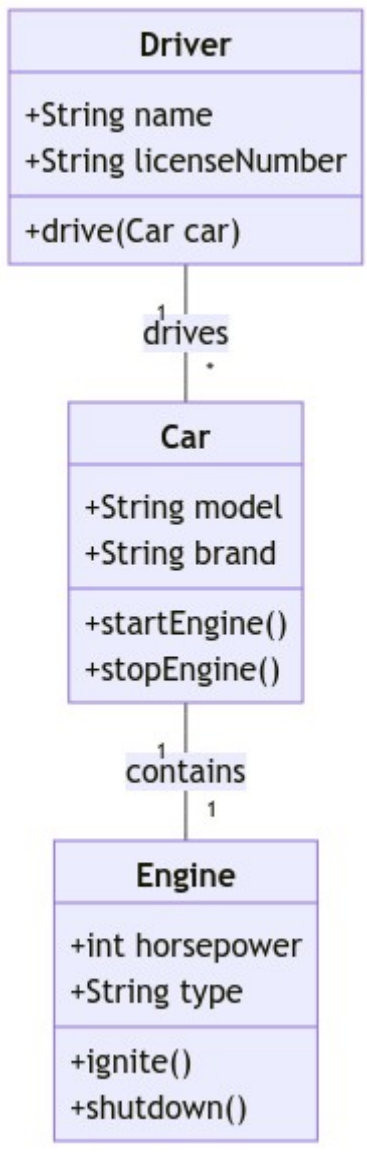
```
def calculate_sum(a, b=5):
          return a + b

        result = calculate_sum(10)
        print(result)
```

- 10
- 15
- 5
- Error

YnlP6sm9

What type of relationship exists between the Car and Engine classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

MksjBCc3

What will be the output of the code?

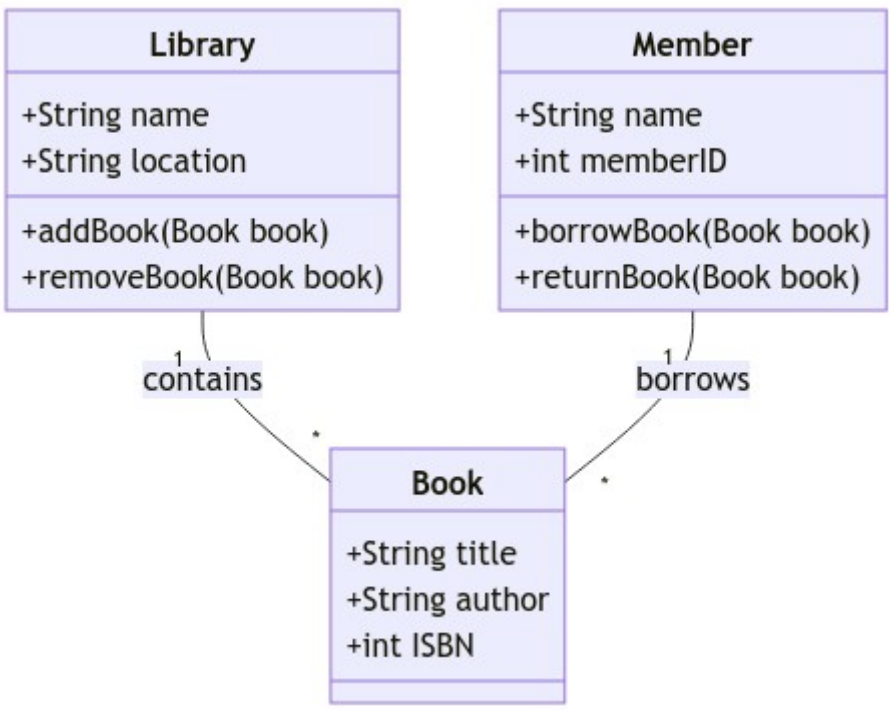
```
def filter_odd_numbers(numbers):
          return [num for num in numbers if num % 2 != 0]

        nums = [2, 3, 4, 5, 6]
        filtered = filter_odd_numbers(nums)
        print(filtered)
```

- [2, 4, 6]
- [3, 5]
- [2, 4, 6, 3, 5]
- [3, 4, 5]

G2cKYu7b

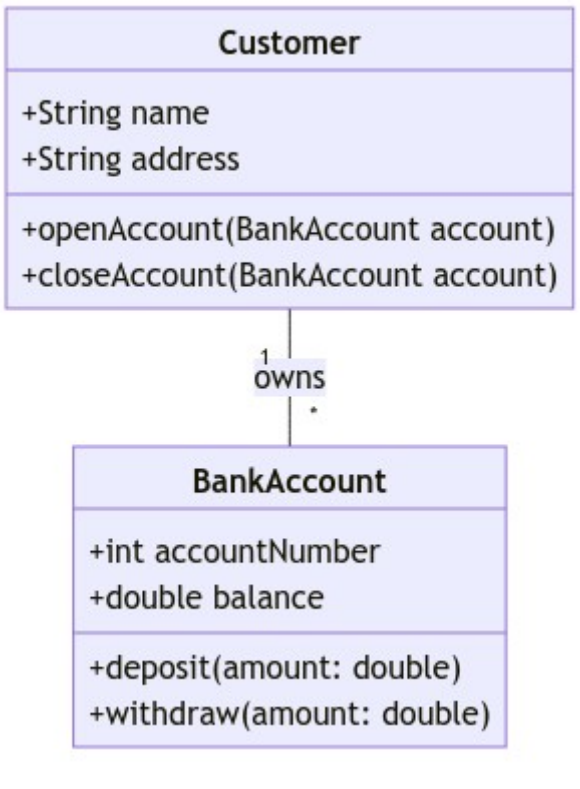
What type of relationship exists between the Library and Book classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

1BSjHDSz

What type of relationship is shown between the Customer and BankAccount classes?



- Inheritance
- Aggregation
- Composition
- Association

IiLilloV

Using the table below, determine the molarity of each solution if the total volume is 1 liter.

Solute	**Mass (g)**	**Molar Mass (g/mol)**
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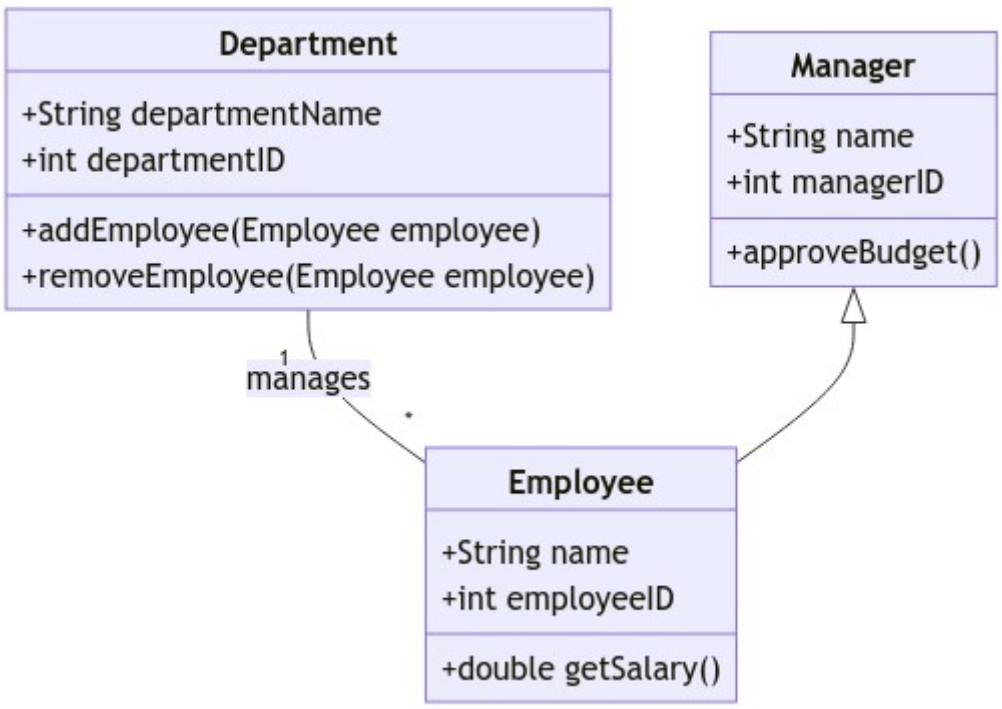
- (NaOH): 1.0 M;(KCl): 0.5 M;($CaCl_2$): 0.68 M;(NH_4NO_3): 1.0 M
- (NaOH): 0.8 M;(KCl): 1.0 M;($CaCl_2$): 1.0 M;(NH_4NO_3): 0.8 M

ZO8zvWTK

What is the relationship between the Manager and Employee classes in the diagram?



- Inheritance
- Aggregation
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kO40y4WW

What is the diagram's relationship between the Student and Course classes?

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- The Course class is an interface implemented by Student.
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yHT7UDhl

What will be the output of the code?

```
def append_value(lst, value=None):
          if value is not None:
            lst.append(value)
          return lst

        my_list = [1, 2, 3]
        result = append_value(my_list, 4)
        print(result)
```

- [1, 2, 3]
- [1, 2, 3, 4]
- [4]
- [1, 2, 3, None]

Nom | Prenom | N° Etudiant

Controle N3

2QQeJ5u0

What will be the output of the code?

```
def calculate_sum(a, b=5):
          return a + b

       result = calculate_sum(10)
       print(result)
```

- 10
- 15
- 5
- Error

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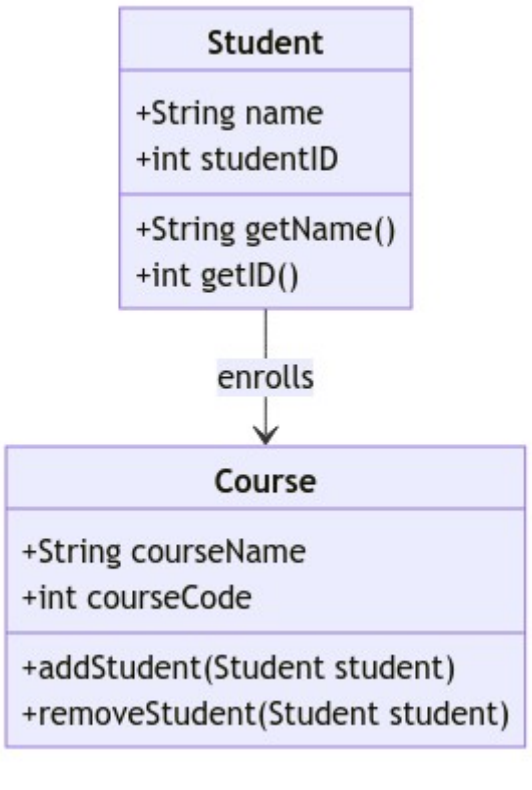
kO40y4WW

What is the diagram's relationship between the Student and Course classes?



- [ ] The Student class inherits from the Course class.
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hjbpbt0e

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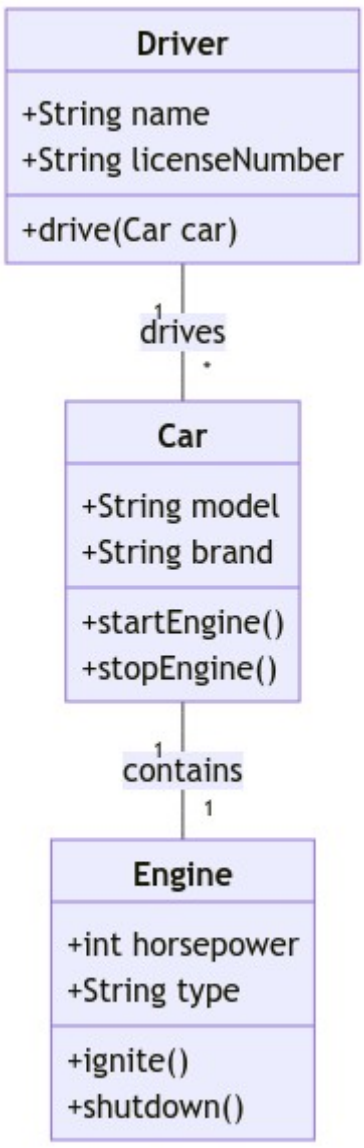
YnlP6sm9

What type of relationship exists between the Car and Engine classes in the diagram?



- Inheritance
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MksjBCc3

What will be the output of the code?

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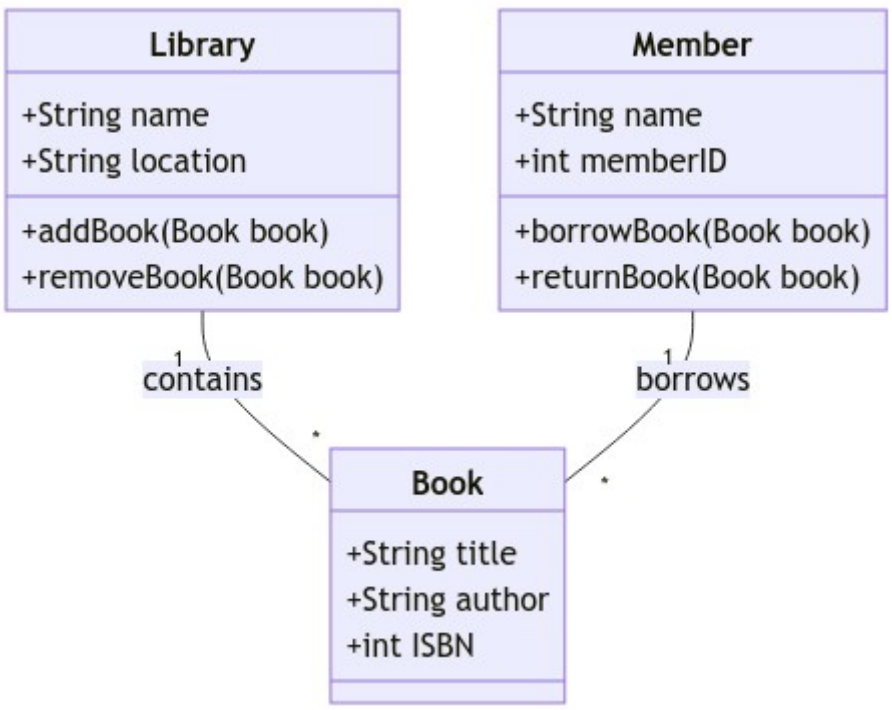
- [2, 4, 6]
- [3, 5]
- [2, 4, 6, 3, 5]
- [3, 4, 5]

G2cKYu7b

What type of relationship exists between the Library and Book classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

liLilloV

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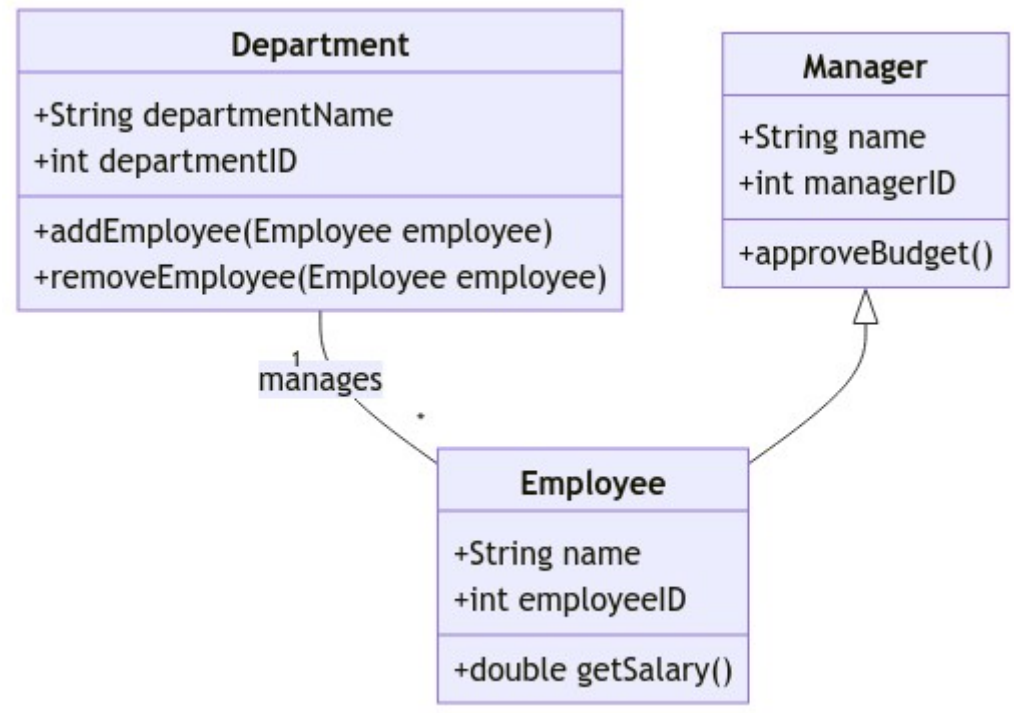
- (NaOH): 0.5 M;(KCl): 0.5 M;($CaCl_2$): 0.5 M;(NH_4NO_3): 0.5 M
- (NaOH): 1.0 M;(KCl): 0.5 M;($CaCl_2$): 0.68 M;(NH_4NO_3): 1.0 M
- (NaOH): 0.8 M;(KCl): 1.0 M;($CaCl_2$): 1.0 M;(NH_4NO_3): 0.8 M

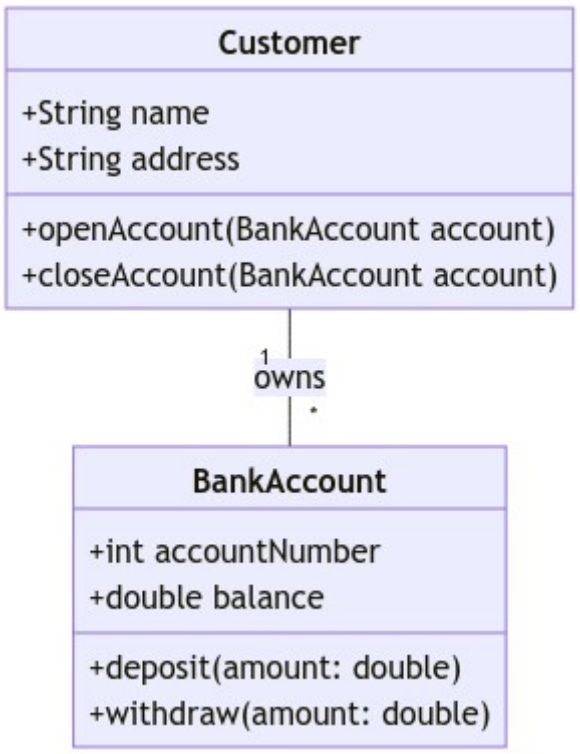
ZO8zvWTK

What is the relationship between the Manager and Employee classes in the diagram?



- Inheritance
- Aggregation
- Composition
- Association

What type of relationship is shown between the Customer and BankAccount classes?



- Inheritance
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