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cs131.pa2.Abstract

Interface Factory

- All Known Implementing Classes:
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```
public interface Factory
```

The interface that creates instances of specific classes

Author:

cs131a

- [Method Summary](#)

All Methods Instance Methods Abstract Methods

**Modifier and
Type**

Method and Description

Vehicle	createNewAmbulance (java.lang.String name, Direction direction) Creates a new instance of class Ambulance
Tunnel	createNewBasicTunnel (java.lang.String name) Creates a new instance of class BasicTunnel
Vehicle	createNewCar (java.lang.String name, Direction direction) Creates a new instance of class Car
Tunnel	createNewPreemptivePriorityScheduler (java.lang.String name, java.util.Collection< Tunnel > tunnels, Log log) Creates a new instance of class PreemptivePriorityScheduler
Tunnel	createNewPriorityScheduler (java.lang.String name, java.util.Collection< Tunnel > tunnels, Log log) Creates a new instance of class PriorityScheduler
Vehicle	createNewSled (java.lang.String name, Direction direction) Creates a new instance of class Sled

- [Method Detail](#)

- **createNewBasicTunnel**

```
Tunnel createNewBasicTunnel(java.lang.String name)
```

Creates a new instance of class BasicTunnel

Parameters:

name - the name of the tunnel to create

Returns:

the newly created instance of the BasicTunnel class

- `createNewPriorityScheduler`

```
Tunnel createNewPriorityScheduler(java.lang.Stringname,
                                java.util.Collection<Tunnel>tunnels,
                                Loglog)
```

Creates a new instance of class `PriorityScheduler`

Parameters:

name - the name of the priority scheduler to create
tunnels - the collection of tunnels that the scheduler should manage
log - the log for logging the operations

Returns:

the newly created instance of the `PriorityScheduler` class

- `createNewPreemptivePriorityScheduler`

```
Tunnel createNewPreemptivePriorityScheduler(java.lang.Stringname,
java.util.Collection<Tunnel>tunnels,
                                           Loglog)
```

Creates a new instance of class `PreemptivePriorityScheduler`

Parameters:

name - the name of the preemptive priority scheduler to create
tunnels - the collection of tunnels that the scheduler should manage
log - the log for logging the operations

Returns:

the newly created instance of the `PreemptivePriorityScheduler` class

- `createNewCar`

```
Vehicle createNewCar(java.lang.Stringname,
                     Directiondirection)
```

Creates a new instance of class `Car`

Parameters:

name - the name of the car to create
direction - the direction of the car

Returns:

the newly created instance of the `Car` class

- `createNewSled`

```
Vehicle createNewSled(java.lang.Stringname,
                     Directiondirection)
```

Creates a new instance of class `Sled`

Parameters:

name - the name of the sled to create
direction - the direction of the sled

Returns:

the newly created instance of the `Sled` class

- `createNewAmbulance`

```
Vehicle createNewAmbulance(java.lang.Stringname,
                           Directiondirection)
```

Creates a new instance of class `Ambulance`

Parameters:

name - the name of the ambulance to create
direction - the direction of the ambulance

Returns:

the newly created instance of the `Ambulance` class

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