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cs131.pa2.Abstract

## Class Tunnel

- [java.lang.Object](#)
  - [cs131.pa2.Abstract.Tunnel](#)
- [Direct Known Subclasses:](#)  
[BasicTunnel](#), [PreemptivePriorityScheduler](#), [PriorityScheduler](#)

# Assignment Project Exam Help

```
public abstract class Tunnel
extends java.lang.Object
```

A Tunnel is an object which can be entered by Vehicles. Vehicles themselves are responsible for indicating when they want to enter and when they are ready to leave. Tunnels are responsible for indicating if it is safe for a Vehicle to enter. When a Vehicle wants to enter a Tunnel, it calls `tryToEnter` on the Tunnel instance. If the Vehicle has entered the Tunnel successfully, `tryToEnter` returns true. Otherwise, `tryToEnter` returns false. The Vehicle simulates the time spent in the tunnel, and then must call `exitTunnel` on the same Tunnel instance it entered.

**Author:**

cs131a

- [Field Summary](#)

Fields

### Modifier and Type Field and Description

static <a href="#">Log</a>	<a href="#">DEFAULT_LOG</a>
	The default log

- [Constructor Summary](#)

Constructors

### Constructor and Description

**Tunnel**([java.lang.String](#) name)

Constructs an instance of this class with the given name and the default log stored in this class

**Tunnel**([java.lang.String](#) name, [Log](#) log)

Constructs an instance of this class with the given name and log

- [Method Summary](#)

All Methods [Instance Methods](#) [Abstract Methods](#) [Concrete Methods](#)

Modifier and  
Type

Method and Description

boolean `equals(java.lang.Object obj)`

void `exitTunnel(Vehicle vehicle)`  
Vehicle exits this tunnel.

abstract void `exitTunnelInner(Vehicle vehicle)`  
Vehicle exits the tunnel.

java.lang.String `getName()`  
Returns the name of this tunnel

int `hashCode()`

java.lang.String `toString()`

boolean `tryToEnter(Vehicle vehicle)`  
Checks whether the given vehicle should enter this tunnel, based on the vehicles currently in the tunnel.

- **Methods inherited from class java.lang.Object**  
getClass, notify, notifyAll, wait, wait, wait

- **Field Detail**

- **DEFAULT\_LOG**

public static Log DEFAULT\_LOG

The default log

- **Constructor Detail**

- **Tunnel**

public Tunnel(java.lang.String name,  
Log log)

Constructs an instance of this class with the given name and log

**Parameters:**

name - the name of the tunnel to create  
log - the log to be used for logging

- **Tunnel**

public Tunnel(java.lang.String name)

Constructs an instance of this class with the given name and the default log stored in this class

**Parameters:**

name - the name of the tunnel to create

- **Method Detail**

- **tryToEnter**

public final boolean tryToEnter(Vehicle vehicle)

Checks whether the given vehicle should enter this tunnel, based on the vehicles currently in the tunnel. It calls the tryToEnterInner which is implemented by the subclass, and also adds entries for enter attempt and enter result in the log.

**Parameters:**

vehicle - the vehicle attempting to enter this tunnel

**Returns:**

true if the vehicle enters this tunnel successfully, false otherwise

- **exitTunnel**

public final void exitTunnel(Vehicle vehicle)

Vehicle exits this tunnel. It calls exitTunnelInner and adds entries in the log.

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**Parameters:**

vehicle - the vehicle exiting the tunnel

- `exitTunnelInner`

```
public abstract void exitTunnelInner(Vehicle vehicle)
```

Vehicle exits the tunnel.

**Parameters:**

vehicle - The vehicle that is exiting the tunnel

- `getName`

```
public java.lang.String getName()
```

Returns the name of this tunnel

**Returns:**

The name of this tunnel

- `toString`

```
public java.lang.String toString()
```

**Overrides:**

`toString` in class `java.lang.Object`

- `hashCode`

```
public int hashCode()
```

**Overrides:**

`hashCode` in class `java.lang.Object`

- `equals`

```
public boolean equals(java.lang.Object obj)
```

**Overrides:**

`equals` in class `java.lang.Object`

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