

# Instructions



How is it going ? Do you have problems with practical tasks ? Any concerns with learning materials ?

4 responses

enough time  
no concerns but killing  
not

# Today's agenda

- Practical Task Discussion
- Total Recall
- RESTful
- Java Sockets
- Quiz
- Questions



# Discuss obligatory practical task

# Total Recall



# What do you remember from the previous workshop ?

Fight between Postman  
and Swagger

http, https

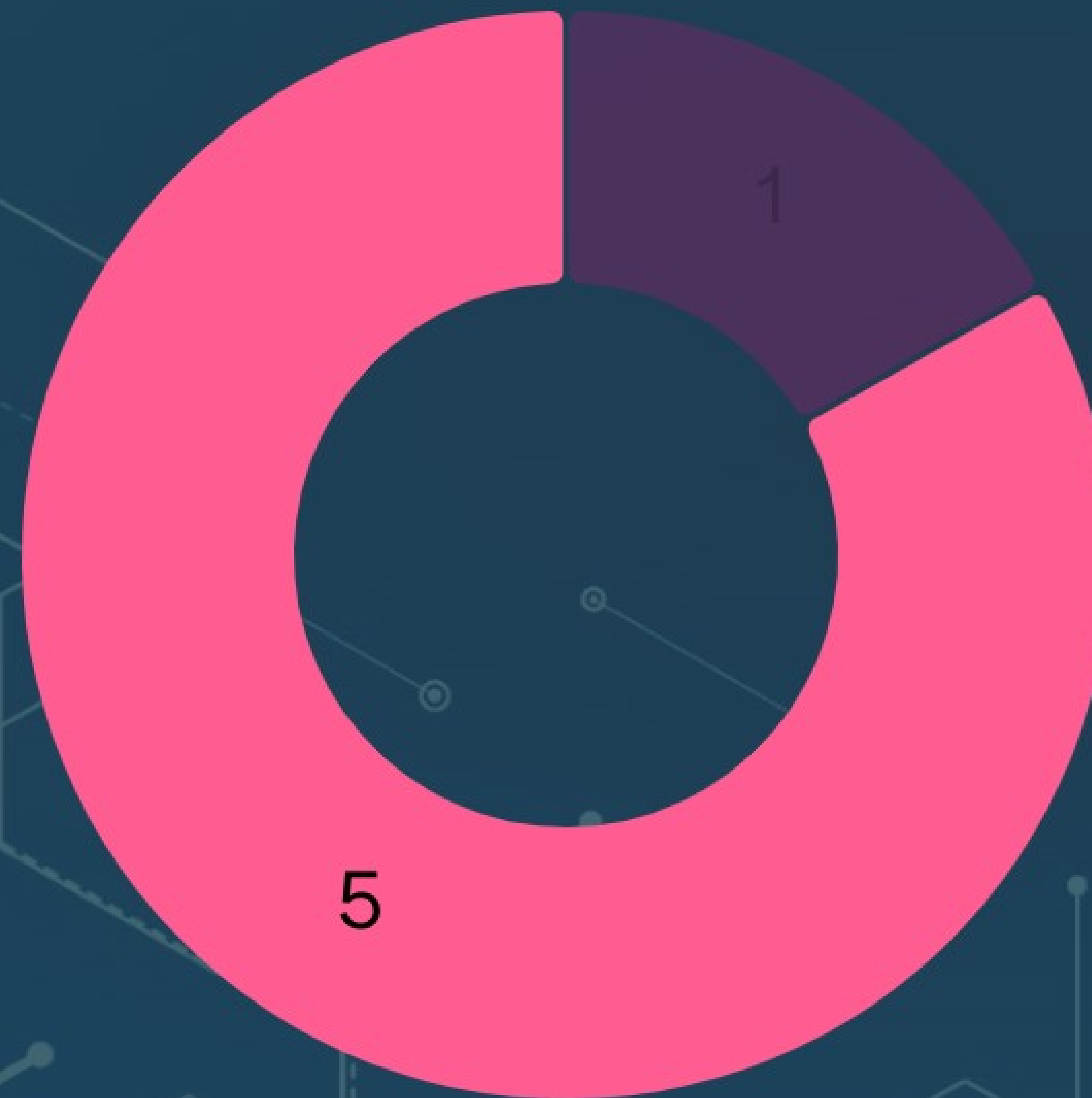
postman

akmaljon showed  
swagger

HTTP methods

content type

# How many versions in HTTP ?



<div></div> 0	2	<div>×</div>
<div></div> 0	3	<div>×</div>
<div></div> 1	4	<div>×</div>
<div></div> 5	5	<div>✓</div>



# ITPU IT PARK UNIVERSITY Http Versions

HTTP/0.9 - The first version, introduced in 1991.  
Handling only basic GET requests.

HTTP/1.0: Considered obsolete, rarely used  
today.

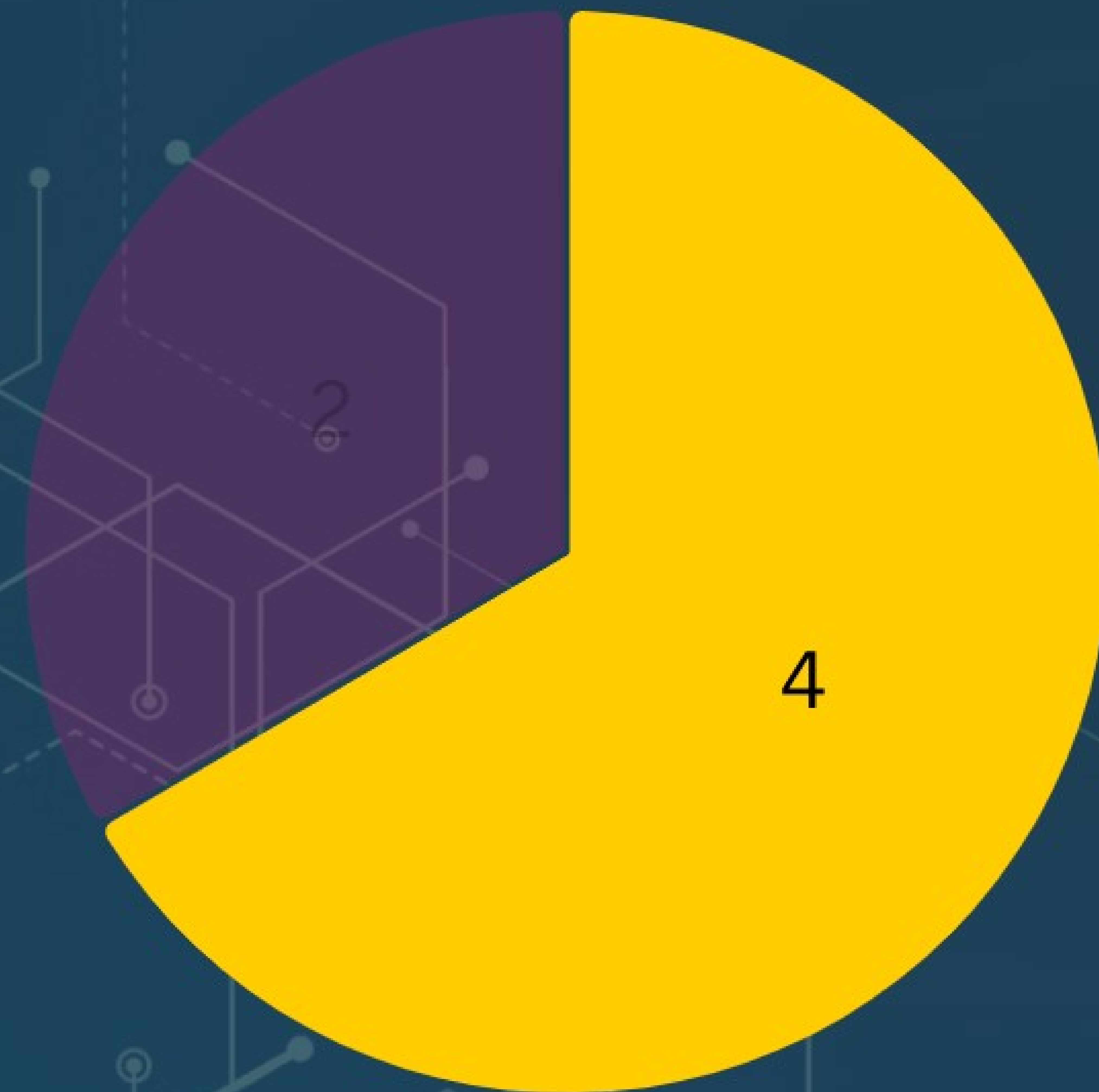
HTTP/1.1: The long-standing standard version, still  
widely implemented.

HTTP/2: Introduced significant performance  
improvements over HTTP/1.1.

HTTP/3: The newest version, utilizing QUIC  
protocol for faster connection establishment.



Which part of an HTTP request indicates the desired action to be performed on a specified resource?



- |  |                   |                                      |
|--|-------------------|--------------------------------------|
| <span style="color: blue;">■</span> 0    | A) Request URI    | <span style="color: red;">✗</span>   |
| <span style="color: yellow;">■</span> 4  | B) Request method | <span style="color: green;">✓</span> |
| <span style="color: magenta;">■</span> 2 | C) Request header | <span style="color: red;">✗</span>   |
| <span style="color: pink;">■</span> 0    | D) Request body   | <span style="color: red;">✗</span>   |

# What is Idempotence ? What methods are idempotent ?

HTTP Methods GET,  
HEAD, PUT, DELETE,  
OPTIONS

Idempotence means that  
making multiple identical  
requests has the same  
effect as making a single  
request.

<<agree



# Http (ws-10)

RESTful | SOCKET



A Spider-Man figure in his iconic red and blue suit is holding a white rectangular sign with the word "NO" written in large, bold, black capital letters. The background is a plain, light-colored wall. The bottom half of the image is a solid black bar.





# REST

<https://restfulapi.net/richardson-maturity-model/>

<https://martinfowler.com/articles/richardsonMaturityModel.html>

# Java Sockets

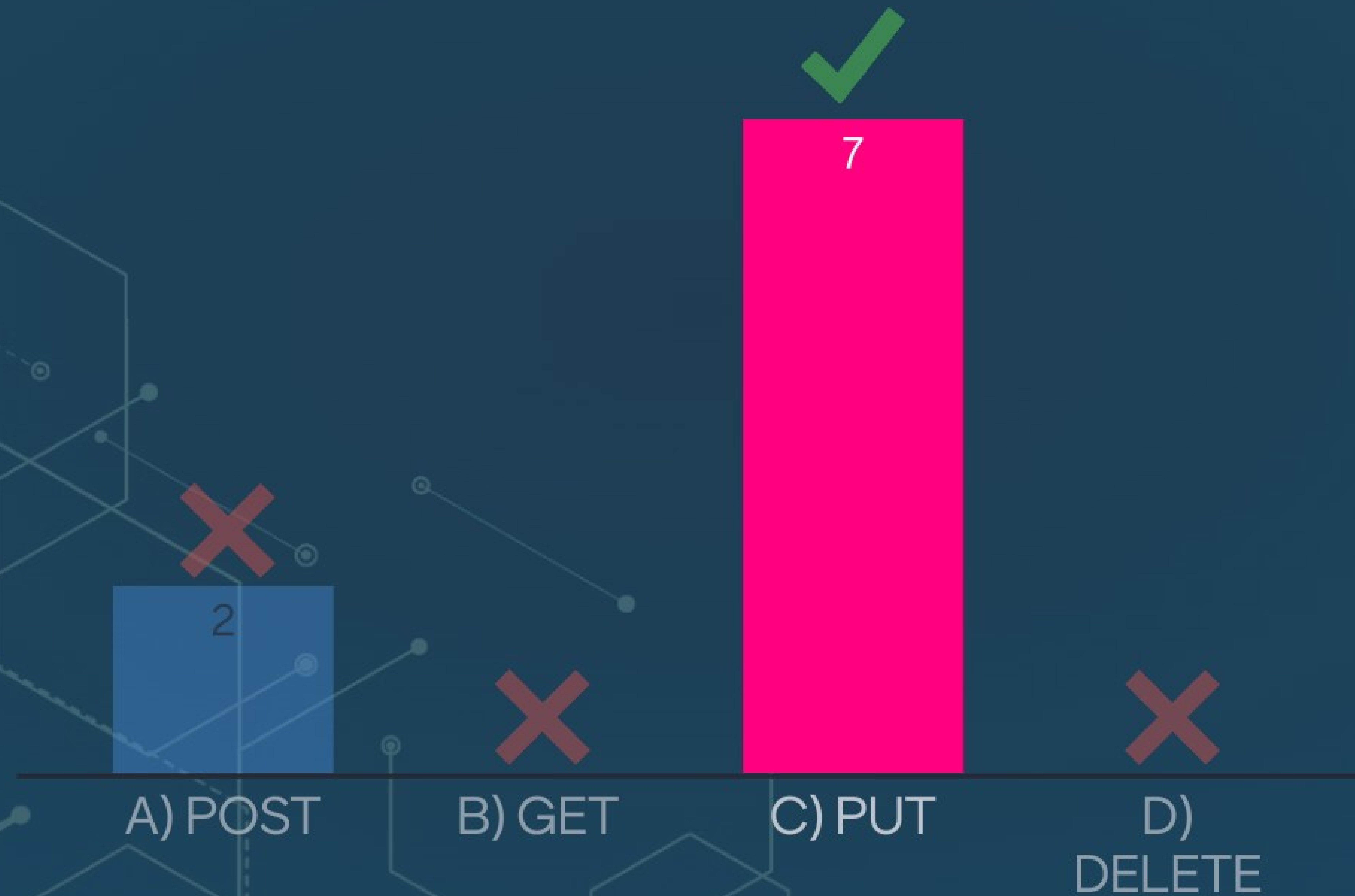
An endpoint for communication between  
two machines

<https://www.baeldung.com/a-guide-to-java-sockets>



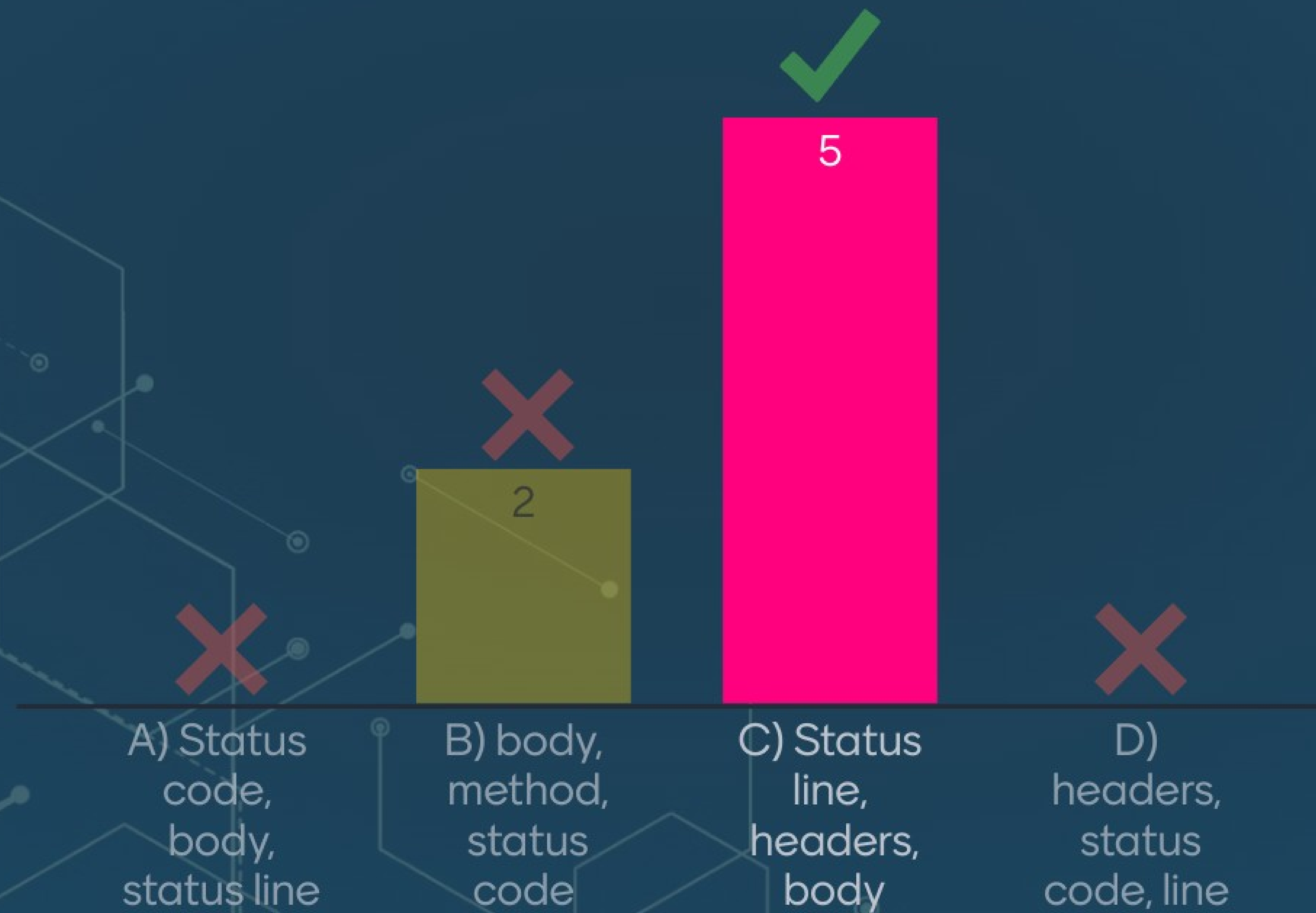
# Quiz

Which HTTP method is used to fully update the current state of a resource?

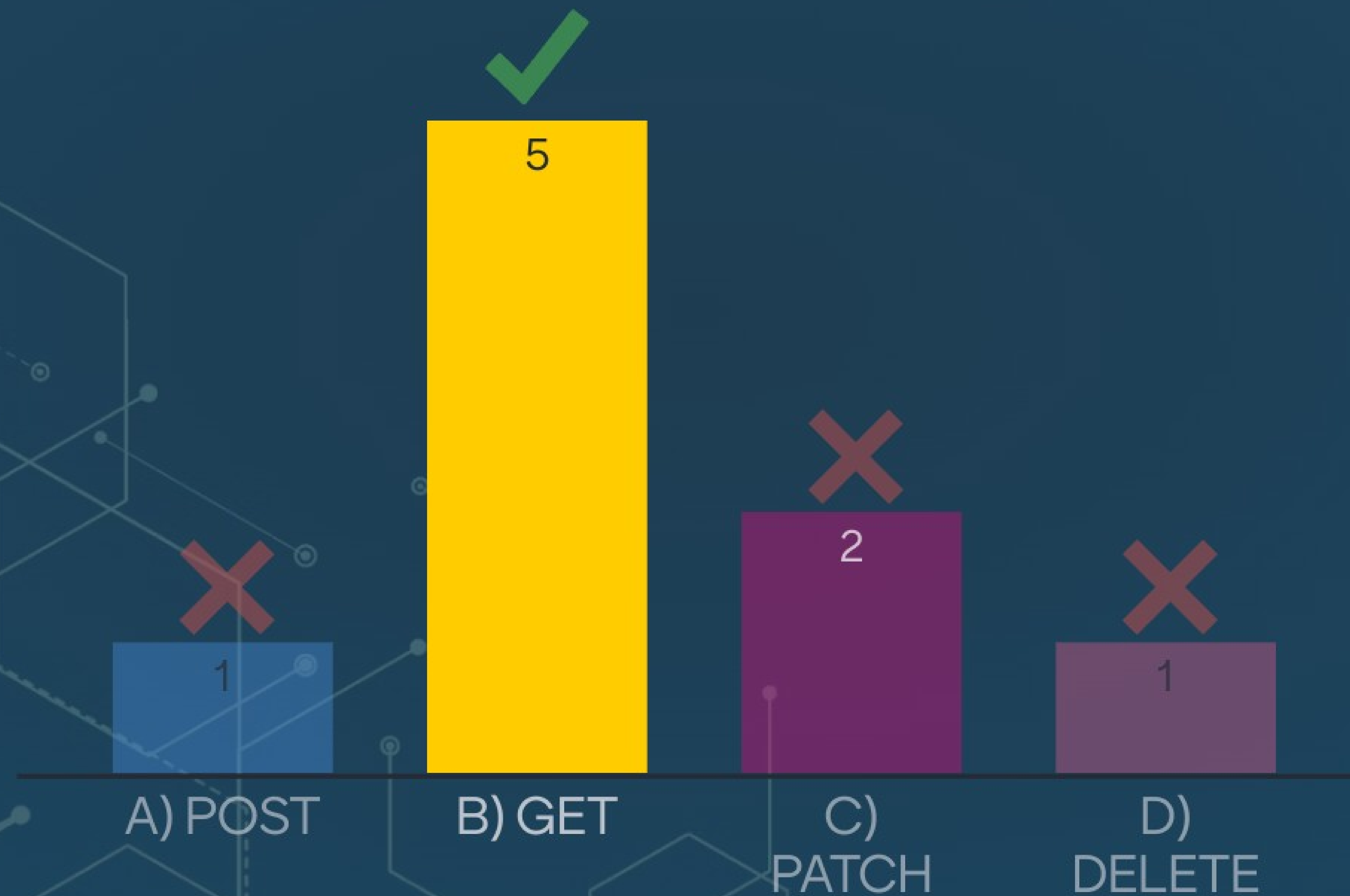




# What are the three main components of an HTTP response?

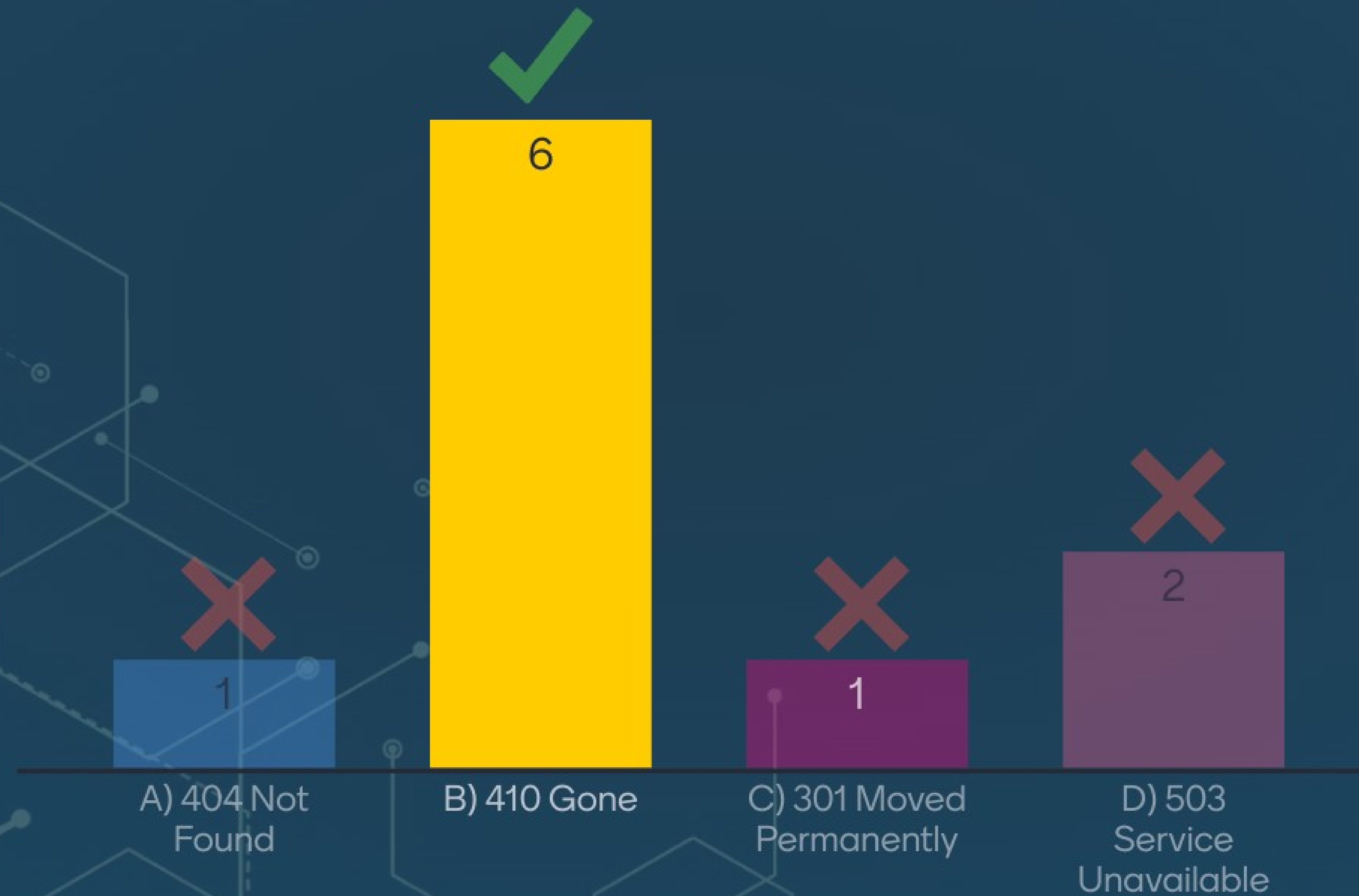


Which HTTP method is idempotent, meaning it can be called multiple times without different outcomes?

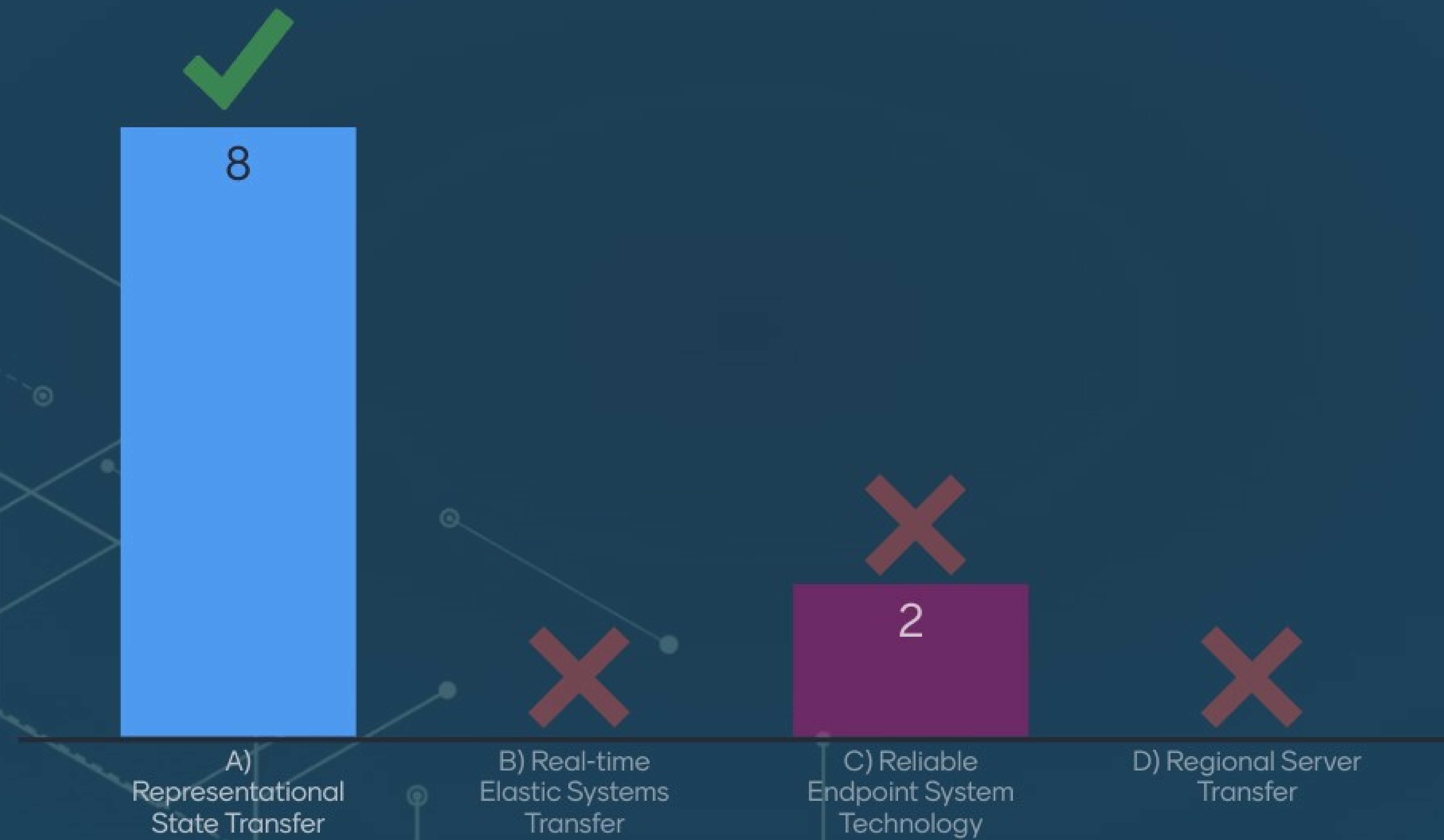




Which HTTP status code indicates that the requested resource is no longer available and no forwarding address is known?

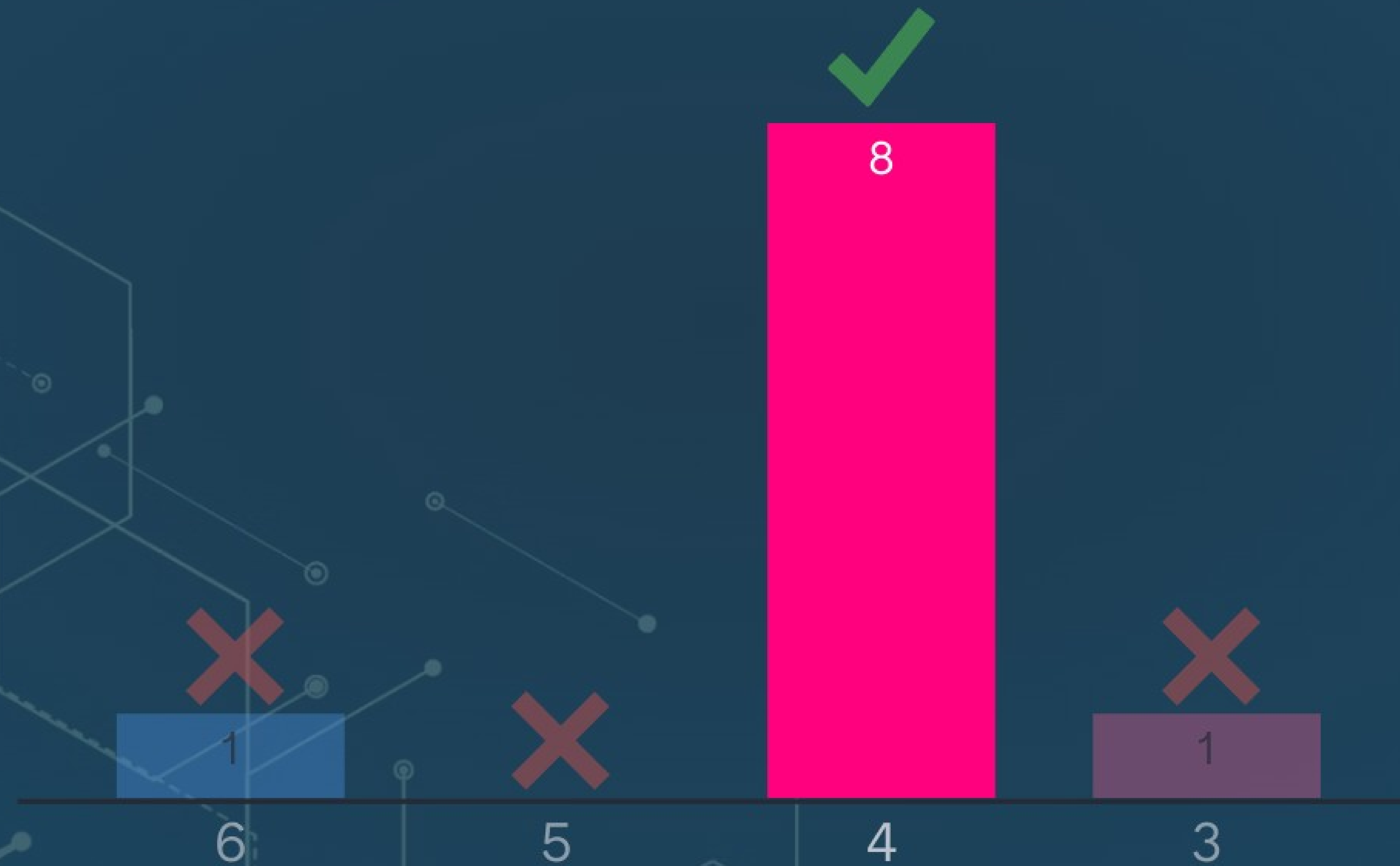


# What does REST stand for?

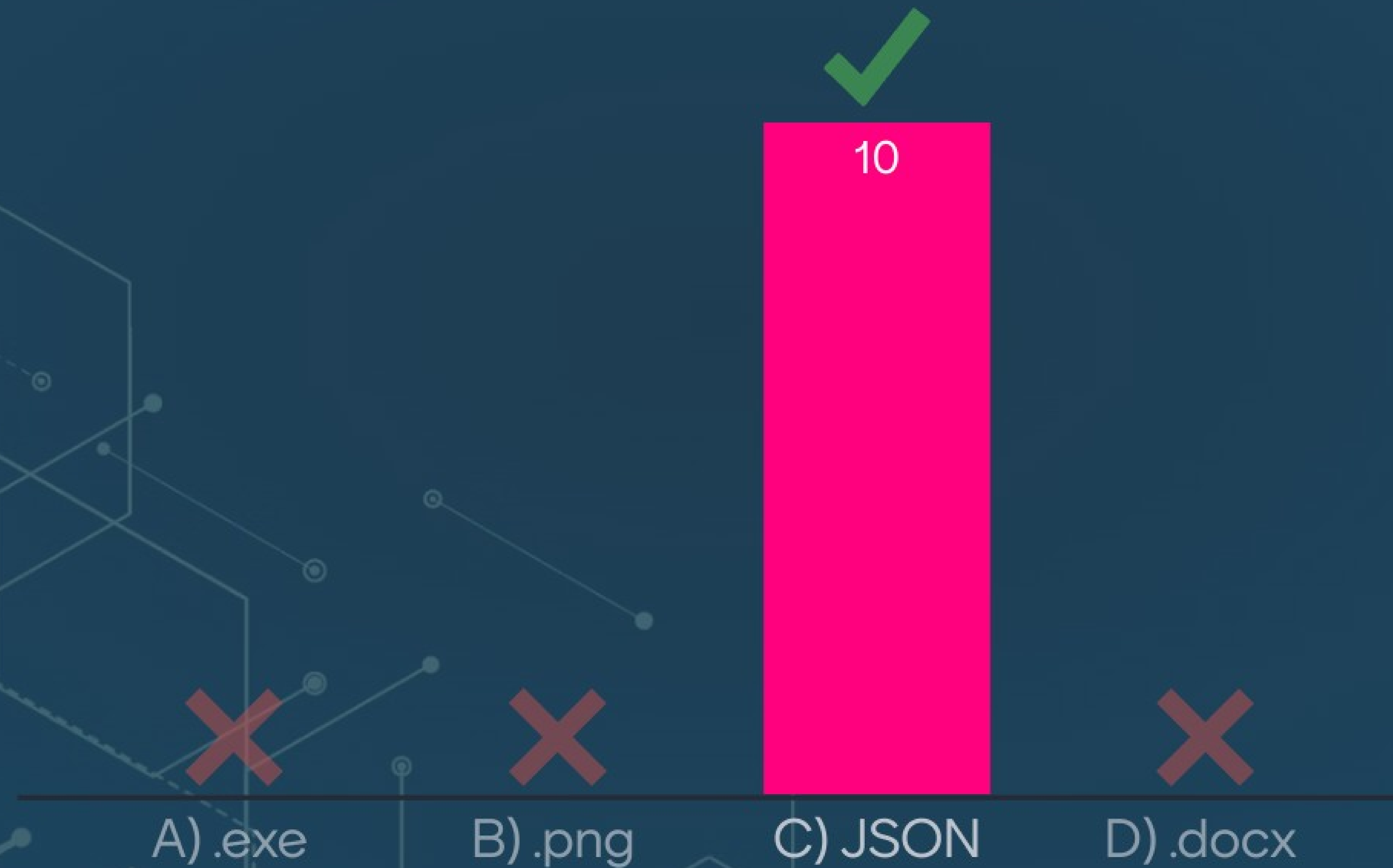




How many mature levels are there in Richardson's model ?

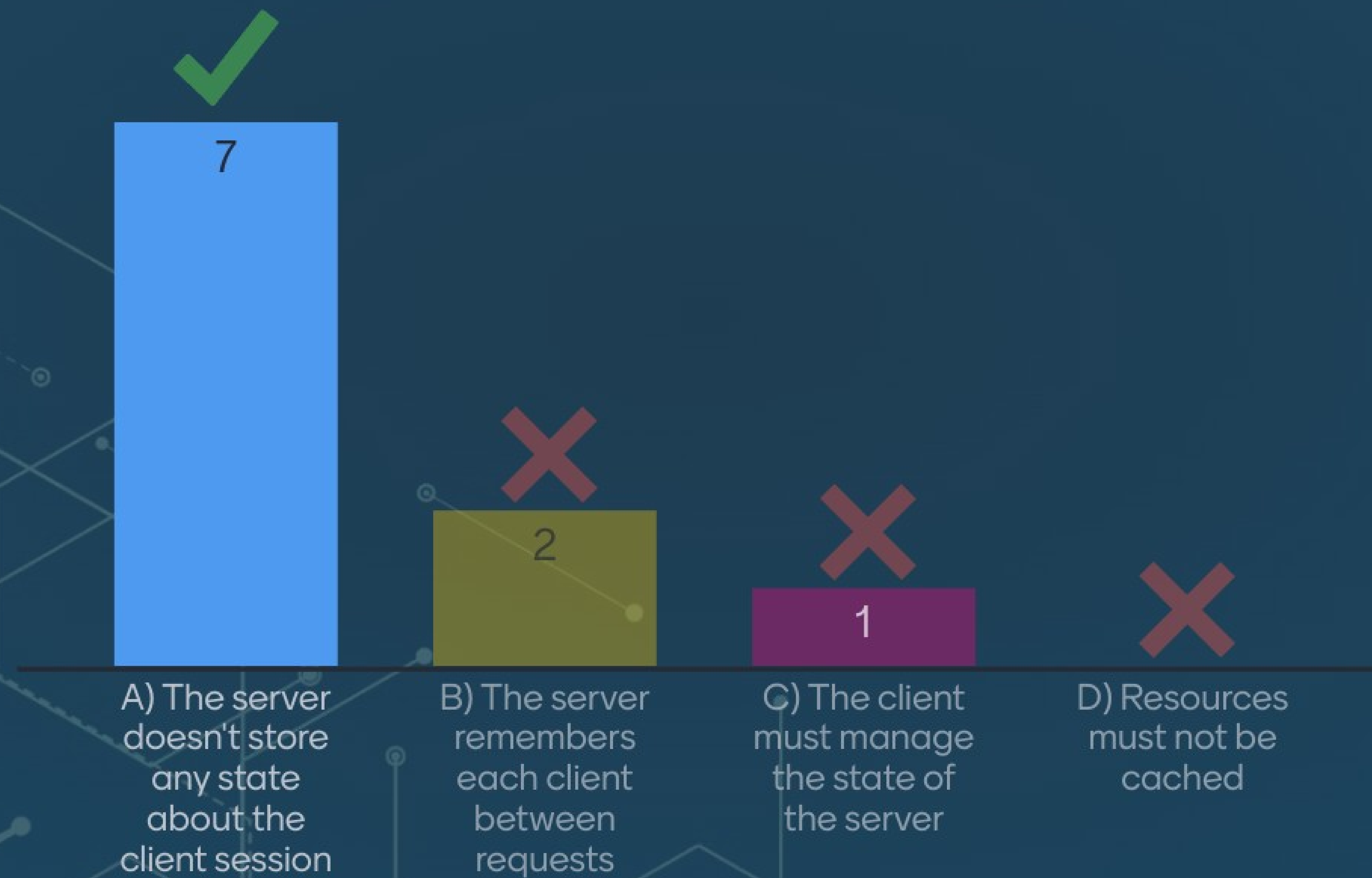


# What is a common format for sending data in a RESTful API?

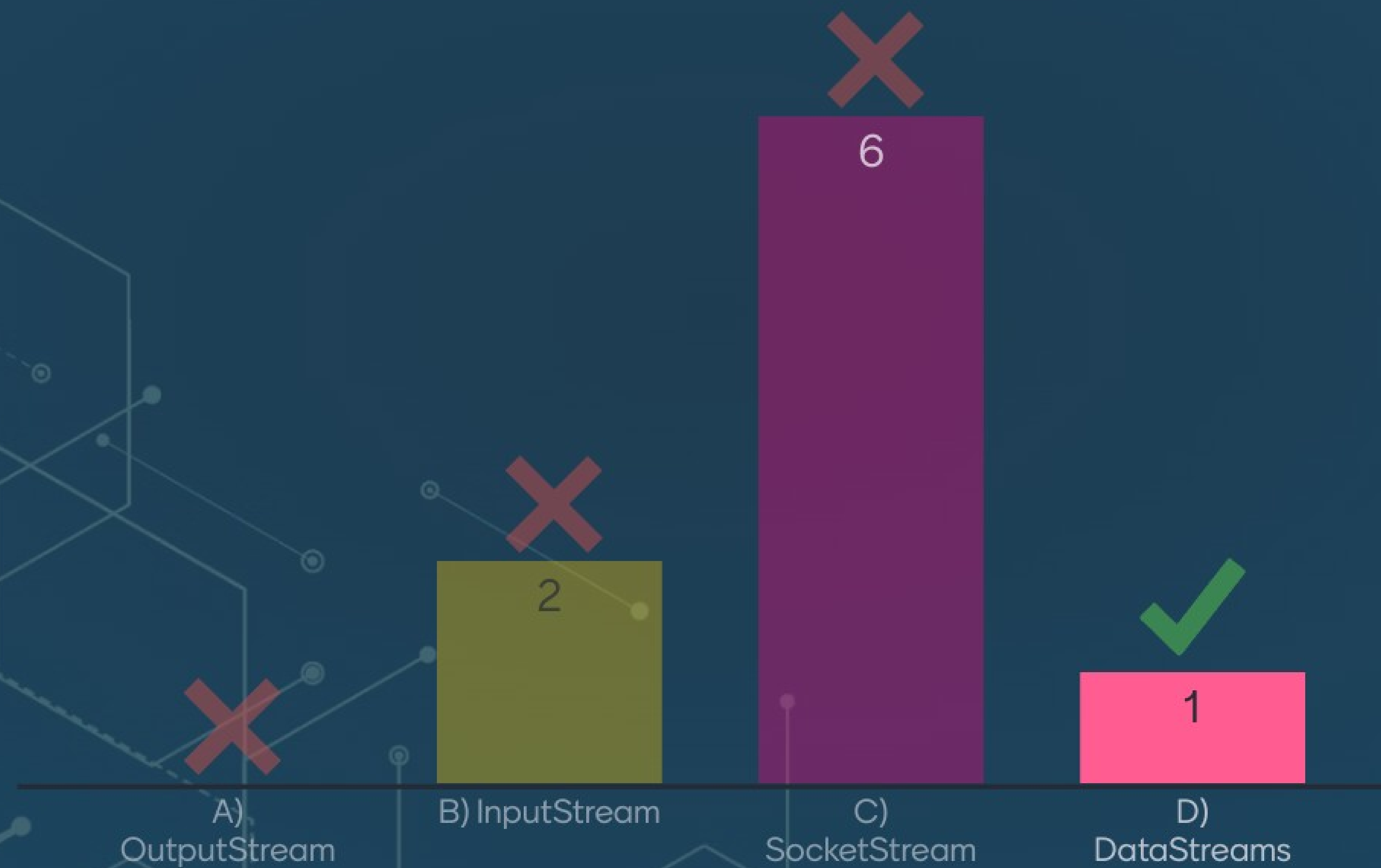




# What does it mean for a RESTful API to be stateless?

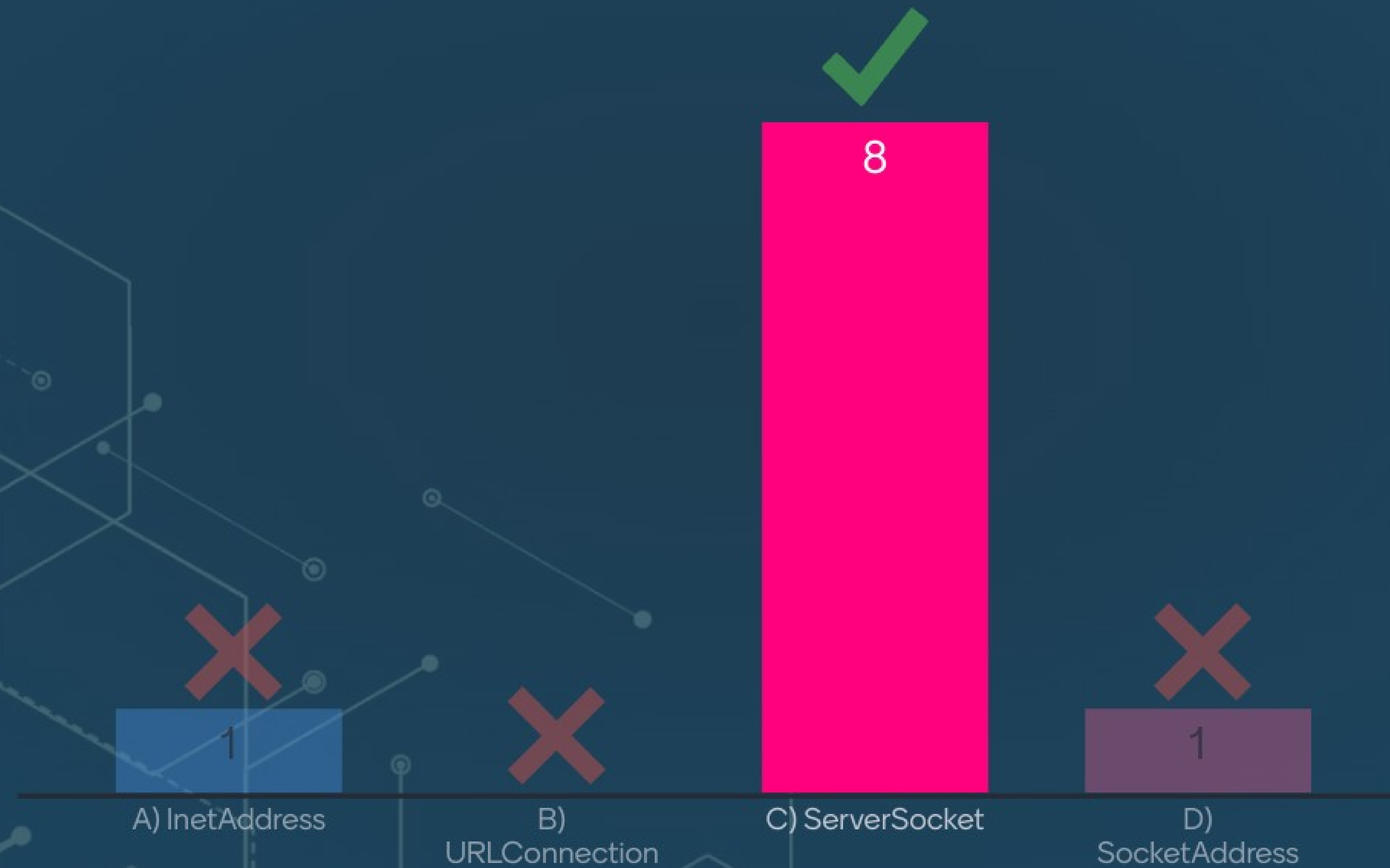


Which Java class provides methods for reading and writing data through sockets?





# Which class in Java is used for creating server sockets?



# Quiz leaderboard





# Next time: Servlet

Questions?

