*Determining the best HTTP status code for each API interaction.*

## Instructions

Identify the HTTP status code that is most appropriate to return in each of the following situations:

**1.**

**Situation:** A client application sends DELETE /students/14 , but the identified student record does not exist.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2.**

**Situation:** A client application sends DELETE /students/14 and the server successfully deletes student record #14.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3.**

**Situation:** after student record #14 has been successfully deleted, the client applications immediately sends DELETE /students/14 again.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4.**

**Situation:** a client application wants to create a student record on the server and sends POST /students with a valid request body. The server creates the record immediately.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5.**

**Situation:** a client application wants to create a student record on the server and sends POST /students with a valid request body. The server schedules a job to create the record, but the record will not actually be created until the following day.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6.**

**Situation:** a client application wants to create a student record on the server and sends POST /students with an invalid request body. The server identifies that the request body is invalid and rejects the request.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**7.**

**Situation:** a client application wants to retrieve a specific student record and sends GET /students/14 . The record exists and the server responds with a representation of the record.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8.**

**Situation:** a client application wants to check if a student record exists and sends HEAD /students/14 . The server responds with a result indicating that the record exists.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**9.**

**Situation:** a client application wants to add a new Student record and sends POST /students. The student record database rejects the system’s attempt to insert a new record into the database table. The exact cause of the error is unknown.

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10.**

**Situation:** a client application wants to check if a student record exists and sends HEAD /students/14 to http://students.com/api . But, the API that handles these requests has been moved to http://education.gov/students/api**.**

**HTTP Result Code: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**