```
INPUT -
// SPDX-License-Identifier: MIT
pragma solidity ^0.8.27;
contract StudentData {
  // Structure to store student information
  struct Student {
    uint id;
    string name;
    uint age;
  }
  // Array to store the list of students
  Student[] public students;
  // Event to log the addition of a new student
  event StudentAdded(uint id, string name, uint age);
  // Constructor: Now payable to accept Ether
  constructor() payable {
    // Constructor can accept Ether
  }
  // Function to add a student to the array
  function addStudent(uint _id, string memory _name, uint _age) public {
    students.push(Student(_id, _name, _age));
    emit StudentAdded(_id, _name, _age); // Emit event when student is added
  }
  // Function to retrieve the number of students
  function getStudentCount() public view returns (uint) {
    return students.length;
  // Receive function to accept plain Ether transactions
  receive() external payable {
    // Receive function handles Ether sent directly
  }
  // Fallback function to handle unexpected calls or Ether with data
```

fallback() external payable {

```
// Fallback function to receive Ether when calldata is present
  }
  // Function to retrieve contract balance if fallback or receive function receives Ether
  function getBalance() public view returns (uint) {
     return address(this).balance;
  }
}
OUTPUT -
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        SOLIDITY COMPILER

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pragma solidity ^0.8.27;
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                                                               uint id;
string name;
 So
                                                               uint age;
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♂ Compile Data.sol

             Compile and Run
                   script
                                                           StudentData (Data sol)
              Run Remix Analysis
                                                           /// Function to retrieve the number of students
function getStudentCount() public view returns (uint) { 
$\mathbb{B}$ 2461 gas
                ∺ Run SolidityScan
                                                                     students.length;
                Publish on IPFS
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                                                       pragma solidity ^0.8.27;
contract StudentData {
         ENVIRONMENT 💆 🚯
          Remix VM (Cancun)
                                                               uint id;
string name;
uint age;
          ACCOUNT 🙃 🗹 🕼
 0
 >>
                                                           // Array to store the list of students
Student[] public students;

    Estimated Gas

           Custom 3000000
                                 Ether ‡
           StudentData - Data.sol
                                                  [vm] from: 0x482...(02db to: StudentData.(constructor) value: 0 wei data: 0x608...b0033 logs: 0 hash: 0x23f...178b5
            Publish to IPFS
```

Pid you know? You can use the Recorder to record and replay your transactions to any network from the Deploy and Run plugin.

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