**<CHAPTER5. 함수 \_ 가변인자함수>**

**가변인자 함수:** 매개 변수의 개수가 변할 수 있는 함수이다. 매개변수를 선언된 형태와 다르게 사용했을 때도 매개 변수를 모두 활용하는 함수이다.

자바 스크립트에서는 함수를 호출할 때 함수 형식에 맞춰 인자를 넘기지 않더라도 에러가 발생하지 않는다.

함수의 인자보다 적게 함수를 호출했을 경우, 넘겨지지 않은 인자에는 undefined값이 할당된다.

인자 개수보다 많게 함수를 호출했을 때는 에러가 발생하지 않고, 초과된 인수는 무시된다.

함수 코드를 작성할 때 런타임 시에 호출된 인자의 개수를 확인하고 이에 따라 동작을 달리 해줘야 할 경우가 있다. 이를 가능케 하는게 바로 ‘arguments 객체’이다.

자바 스크립트에서는 함수를 호출할 때 인수들과 함께 암묵적으로 arguments객체가 함수 내부로 전달된다. Arguments객체는 함수를 호출할 때 넘긴 인자들이 배열 행태로 저장된 객체를 의미한다. 이 객체는 실제 배열이 아니고 ‘ 유사 배열 객체’이다.

<코드 예시 \_ add함수>

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhZT1dPTiBNT09OAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM3OAAAkpIAAgAAAAM3OAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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해당 코드를 출력해본 결과

![스크린샷이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhZT1dPTiBNT09OAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzMgAAkpIAAgAAAAMzMgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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7t7tXNrPFOI3MbmNw21x1U46EdxUOpajBpVi1zcB2AZURI1y0jscKqj1JIH86i0dXSK68zSotMJupCFjdW88Z4lO0DBbqQefWoPElldXenwSWEQmuLO5juUhLhfN2HlcngEjOM8ZxyOtAFJvGMUa7brT7iwnjuYoZ4L141MSSZxLuRnQrwejdjnFX5PFGgx6SuqNremiwkYol0buMRO3Pyh84J4PGe1cxq+lalq9ydan8PzMRPaKumySW7TNHFIzsxPmeXnLcDeemeCcV0Hh60uIJNU1C9tmsTqFyJxbSOrNEBGqZYqSu47cnBI6c0AOsfE1nJ4Wttb1i4sdMgmXLO99G8KknAAlB2tn2q5d63pVhpseoX2p2dtZSY2XM1wiRvkZGGJwc9q4Sz0zVLrwj4av9Je8YWpncpp5tvOIkJ2un2gGM8H1Bwxwex0bLR73RJNK1G30vUtSWGK4R7WeW1FzDJLIHLgKyw9iPlYYBGAeaANi/8AHXhnTNQtLS+1uwha7iMqO93GqhMAhiS3Rs8Hvg1vRyJNEskTq8bqGV1OQwPQg9xWBrAv/tuj6vaaVc3RtxIJrOOSJZlEijuzhDgjB+bvxmt+Ni8SsyNGWUEo2Mr7HBIz9DQA6iiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAG+YPRv8Avk0eYPRv++TTqKAG+YPRv++TR5g9G/75NZmq66dImUz6XeyWeAZb6IxGOHJx8ylxIe33VPWtWqcGkm+oDfMHo3/fJqtdWNhfMrXtlDcMowplgDkD8RVuikm1sNNrYzv7F0YgA6TZ4HT/AEReP0qxb21pZri0tY4BjGIodvHXsKs0UczYOTe7G+YPRv8Avk0eYPRv++TTqKQhvmD0b/vk0jFHUq6llYYIKEgin0UAZw0XRgcjSbMH2tF/wp0OlaVbzLLb6bbRSKcq6WwUj6ECr9FVzS7lc0u43zB6N/3yaPMHo3/fJp1FSSN8wejf98mqWp6VpWtQJDrOm22oRI29I7u2Eqq2MZAYHBwav0UARoY441SNNqKMKqoQAPSneYPRv++TTqKAG+YPRv8Avk0eYPRv++TTqKAG+YPRv++TR5g9G/75NOooAb5g9G/75NHmD0b/AL5NOooAb5g9G/75NHmD0b/vk06igBvmD0b/AL5NHmD0b/vk06igBvmD0b/vk0eYPRv++TTqKAG+YPRv++TR5g9G/wC+TTqKAG+YPRv++TR5g9G/75NOooAb5g9G/wC+TR5g9G/75NOooAb5g9G/75NHmD0b/vk06igBvmD0b/vk0eYPRv8Avk06igBvmD0b/vk0eYPRv++TTqKAG+YPRv8Avk0eYPRv++TTqKAG+YPRv++TR5g9G/75NOooAb5g9G/75NHmD0b/AL5NOooAb5g9G/75NHmD0b/vk06igBvmD0b/AL5NHmD0b/vk06igBvmD0b/vk0eYPRv++TTqKAG+YPRv++TR5g9G/wC+TTqKAG+YPRv++TR5g9G/75NOooAb5g9G/wC+TR5g9G/75NOooAb5g9G/75NHmD0b/vk06igBvmD0b/vk0eYPRv8Avk1Hc3trZIHvLmG3UgkNLIFHAyevoATVeXW9Kg0+O+n1Ozjs5TiO4e4URufZicHofyoAueYPRv8Avk0eYPRv++TTEureSTy454ncIJNquCdh6Nj0ODz7Vm3HiC3XU9NtLKS0ujfEscXkasse0kOqk5cEjHy/XtQBq+YPRv8Avk0eYPRv++TVefVLC2vYrO5vraK6m/1UEkyq8n+6pOT+FSfbLb7M9x9oi8hCQ0u8bVwcHJ6DBGKAJPMHo3/fJo8wejf98mnVkW/iK0vdfGnafPZ3arE7yyQ3kbPEwYDaYwd3c89sYoA1fMHo3/fJo8wejf8AfJqpHrWlzTzwQ6lZyS2wJnjWdS0QHUsM/Lj3qS11KxvpZorK9t7mSA7ZUhlVzGfRgDx0PWgCfzB6N/3yaPMHo3/fJqu+p2a2LXi3CSwKSu6E+Zls42gLkk54wOc8VVttc+26LHqNjp15cCRiv2dTGsgwxU53OF6j+9QBpeYPRv8Avk0eYPRv++TVDSNXGrC5/wBCubN7abyXS42E7sA8FGYHqO9aNADfMHo3/fJo8wejf98mnUUAN8wejf8AfJop1FABRVb7TJ/zyX/vv/61H2mT/nkv/ff/ANalzI09lPsc/wCK7O61O4jtrTStSkmRd0F6l4kdpFJnIMsRlBk2kA4Mb+3euoXIUbjk45OOtV/tMn/PJf8Avv8A+tR9pk/55L/33/8AWrSVbmio9vUPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rVnzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7Fmiq32mT/AJ5L/wB9/wD1qPtMn/PJf++//rUcyD2U+xZoqt9pk/55L/33/wDWo+0yf88l/wC+/wD61HMg9lPsWaKrfaZP+eS/99//AFqPtMn/ADyX/vv/AOtRzIPZT7Fmiq32mT/nkv8A33/9aj7TJ/zyX/vv/wCtRzIPZT7GF4nuNKj1rRP7WvLCFba4a4K3VxHGR8jBWAYgn5sdO9YWs6noltqNpdaLr9qsKCbzI7G/s/MDyMGLDzyVwSDnBB54yM13X2mT/nkv/ff/ANaj7TJ/zyX/AL7/APrUcyD2U+xwb6lotppunf2Prtisq272couNQtvMjjk53HawU7G5wvbIFWNW8VaJbXWjwaZPaXNtp8okLw6jaKu0Rum0B5VORkdse9dp9pk/55L/AN9//Wo+0yf88l/77/8ArUcyD2U+x55qWqaVPrN+JfECyWeoSRv/AKDf2AVQqqMP5p3ggrkFCevGDSXWq2btd28Wt6YbOW6KCP8AtOEBopH3vLjfzjpg8/e4OefRPtMn/PJf++//AK1H2mT/AJ5L/wB9/wD1qOZB7KfYx7bxlpdzrxsIr/THt2jXybhNSiZpZS2PLEYO7PTnvnFM1W8trHxpZXN5cw28MOnzmSSWRUVA0kYXJJwMnge9bf2mT/nkv/ff/wBaqllZWWmNIdN0uztDKcyGBFj3n3wvPU0cyD2U+xxMGt20lnqWn6bqCfYGsbgpaXN7ayurbSwEPkuzEY3E784AGO9aemazpdrrcEl/PZaGtpYLbC1ury3SRt21gdiudqgDjJB+bp69ZJL50TxTW8ckbgqyM2QwPUEY5pVndVCrCgAGAA/T9KOZB7KfY52x8Z6Ba6O7ibSraRZHIsrXUbYlvnPzA7lXLfe5I6+tZugeMLCw8KTQtdWMV7CZGhil1K1xKWdmHKykADIznHtmu1+0yf8APJf++/8A61H2mT/nkv8A33/9ajmQeyn2M/wxPpzaSlvpup2uovCM3EtvMsmZGJLMdp4ycmtmq32mT/nkv/ff/wBaj7TJ/wA8l/77/wDrUcyD2U+xZoqt9pk/55L/AN9//Wo+0yf88l/77/8ArUcyD2U+xZoqt9pk/wCeS/8Aff8A9aijmQeyn2P/2Q==)

Arguments객체는 인자를 배열로 받아 저장하는 변수이며 다음과 같이 세부분으로 구성된다.

1. 함수를 호출할 때 넘겨진 인자(배열 형태) : 함수를 호출할 때 첫번 째 인자는 0번 인덱스, 두번째 인자는 1번 인덱스…
2. Callee 프로퍼티 : 현재 실행 중인 함수의 참조값(예제에서는 add()함수) / length 프로퍼티가 있어 배열과 유사하게 동작하지만 argument 객체는 매개변수 개수가 정확하게 정해지지 않은 함수를 구현하거나, 전달된 인자의 개수에 따라 서로 다른 처리를 해줘야 하는 함수를 개발하는데 유용하게 사용한다.
3. Length 프로퍼티 : 호출할 때 넘겨진 인자의 개수를 의미

**<CHAPTER5. 함수 \_ 코드 실행 함수(eval)>**

Eval()함수는 문자열을 자바스크립트 코드로 실행하는 함수이다.

🡪근데 문제 많아서 요즘 잘 안쓴대….정확하게는 쓰지말래! 그래서 정리하다가 말았어

**\*번외\_Java Script의 메모리 관리(**원어 책을 번역해놓은 거라 도움이 많이 되는 찐 정보라고 생각됨)

<https://engineering.huiseoul.com/%EC%9E%90%EB%B0%94%EC%8A%A4%ED%81%AC%EB%A6%BD%ED%8A%B8%EB%8A%94-%EC%96%B4%EB%96%BB%EA%B2%8C-%EC%9E%91%EB%8F%99%ED%95%98%EB%8A%94%EA%B0%80-%EB%A9%94%EB%AA%A8%EB%A6%AC-%EA%B4%80%EB%A6%AC-4%EA%B0%80%EC%A7%80-%ED%9D%94%ED%95%9C-%EB%A9%94%EB%AA%A8%EB%A6%AC-%EB%88%84%EC%88%98-%EB%8C%80%EC%B2%98%EB%B2%95-5b0d217d788d>

C와 같은 언어의 경우 malloc()이나 free()와 같은 저수준 메모리 관리를 위한 원시함수가 존재한다. 개발자들은 이들을 이용해 명시적으로 운영체제로부터 메모리를 할당받거나 돌려주는 작업을 한다.

자바 스크립트에서는 무언가가 생겨날 때 메모리가 할당되며 이들이 더 이상 사용되지 않을 때는 ‘자동으로’ 메모리가 반환되는데 이를 ‘Garbage Collection’이라고 한다.

이렇게 자원을 반환하는 것이 자동으로 일어나는 것처럼 보이는 것 때문에 자바 스크립트 개발자들은 자신들이 더 이상 메모리관리를 신경쓰지 않아도 된다고 생각하지만 이는 틀린 생각이라고 한다.

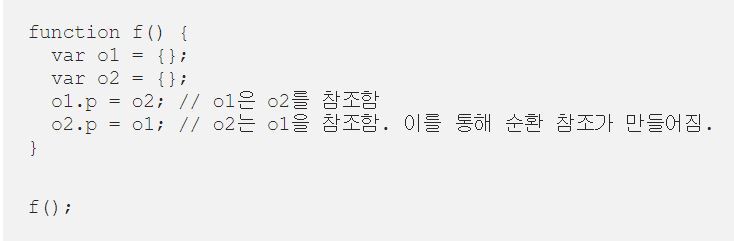
‘메모리’자체에 대한 개괄적인 설명은 생략했습니다. / 메모리 선언 – 메모리 사용 – 메모리 해제순으로 메모리의 생명주기는 이뤄진다. 메모리에는 정적 선언, 동적 선언이 있다. 이런거였음.

자바스크립트에서 메모리의 사용 : 자바 스크립트에서 할당된 메모리를 사용하는 것은 기본적으로 그 메모리 내에서 읽거나 쓰는 것을 의미한다. 이후 해당 부분 메모리가 필요하지 않게 되면 메모리를 놓아주는데 이때 등장하는게 gc이다. 자바 스크립트 내에서 garbage collection이 작동하는 원리는 더 이상 필요 없음을 알아내는 일정 알고리즘이 작동하면 이를 통해 결정해서 버리게 된다.

GC에서 가장 의존하고 있는 주요개념은 ‘참조’이다. 메모리 관리의 관점에서는 어떤 객체가 다른 객체에 접근할 수 있으면 다른 객체를 ‘참조’한다고 말한다. 가장 대표적인 gc의 알고리즘은 가리키는 참조가 하나도 없는 경우 gc의 대상으로 여긴다.

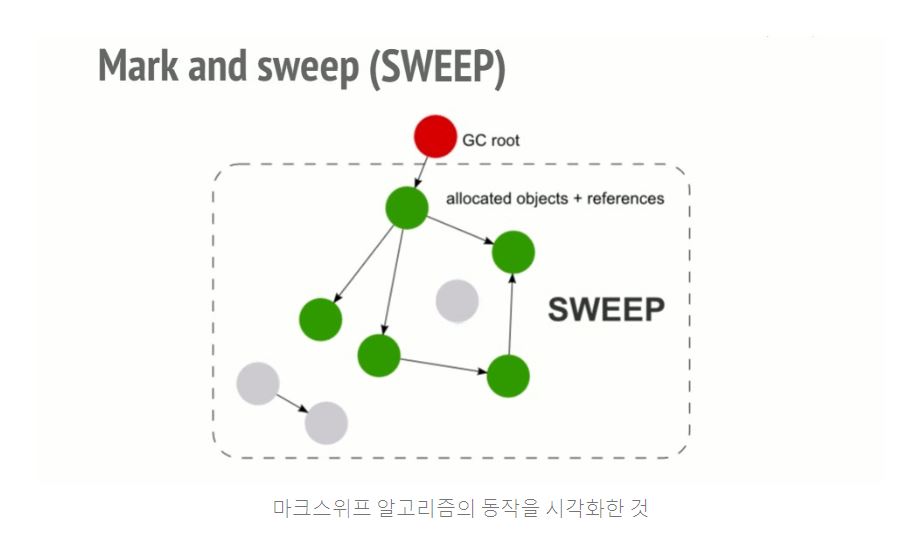
이러한 gc가 문제가 발생하는 원인에는 보통 순환 참조 때문에 많이 발생한다. 순환 때문에 생기는 제한점들이 있는데 우선 순환 참조라 하면, 서로가 서로를 참조해서 한번 쓴 뒤 더 이상 필요없음에도 불구하고 계속해서 무한으로 서로를 참조하는 것을 말한다.

이러한 순환 참조의 예시의 코드는 다음과 같다.



이러한 순환 참조 코드의 문제해결은 Mark and sweep 방법으로 해결할 수 있는데 해결 순서는

1. 함수의 근간이 되는 roots를 찾는다.
2. 그런 다음 모든 루트와 그 자식들을 검사해서 활성화 여부를 표시한다. 루트가 닿을 수 없는 것들은 gc의 대상입니다.
3. 마지막으로 gc는 활성으로 표시되지 않는 모든 메모리를 반환합니다.



흔히 가장 많이 저지르는 메모리 누수의 케이스(4가지)

1. 전역변수
2. 잊혀진 타이머 혹은 콜백함수
3. 클로져
4. DOM에서 벗어난 요소 참조