day71-sol-for-while-dowhile

≔ 태그	
■ 날짜	@2023년 1월 9일

for, while, do-while

• 기본형태

```
for(초기값; 조건문; 증가문)
{
반복 내용
}
```

for문

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.8.0 <0.9.0;

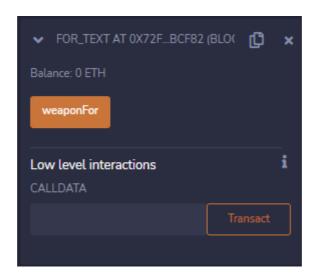
//반복문
// for, while, do-while

//for
contract for_text{
    event Weapon(uint256 indexed _index, string _weapon);

    string[] private WeaponList = ["sword", "magicstick", "magicsword", "katana", "bow"];

    function weaponFor() public{
        for(uint256 i=0; i<WeaponList.length; i++){
            emit Weapon(i, WeaponList[i]);
        }

    }
}
```



```
logs
                                      "from": "0x72f4oA880A2fA7Ea7a8Aa88406184E62Fb7bof82",
"topio": "0x859201a8928083dda6b1da25f9foob5084421f2d9f6d4098395o55420960e8d3",
"event": "Weapon",
                                           "from": "0x72f4oA880A2fA7Ea7a8Aa88408184E62Fb7bof82",
"topio": "0x859201a8928083dda8b1da25f9foob5084421f2d9f8d4098395o55420980e8d3",
"event": "Weapon",
```

반복문

• 기본형태

```
초기값
while(조검문){
반복할 내용
증가값
}
```

do-while

• 기본형태

```
초기값
do{
   처음 한번 실행 후
   반복할 내용
}while(조건문)
```

```
// SPDX-License-Identifier: GPL-3.0
pragma solidity >=0.8.0 <0.9.0;

contract do_while_text{
    event Weapon(uint256 indexed _index, string _weapon);

    string[] private WeaponList = ["sword", "magicstick", "magicsword", "katana", "bow"];
    function weaponDoWhile() public {
        uint256 i = 0;

        do{
            emit Weapon(i, WeaponList[i]);
            i++;
        }while(i < WeaponList.length);
    }
}</pre>
```