# 92.https://stackoverflow.com/questions/72943448/how-to-return-an-array-of-structs-from-solidity

**T:**How to Return an Array of structs from Solidity?

**Q:**i'm having an issue when trying to return an array of structs from a getter function i've made.  
  
The smart contract is an ERC721 Staking Contract.  
  
This is the getter function:  
  
function getNftInfo(uint256[] calldata tokenIds) public view returns (uint256[] memory){ uint256 tokenId; uint256[] memory tmp = new uint256[](tokenIds.length); for (uint i = 0; i < tokenIds.length; i++) { tokenId = tokenIds[i]; Stake storage staked = vault[tokenId]; tmp[i] = staked; } return tmp; }  
  
WARN: THIS PARAGRAPH CONTAINS TAG: [CODE]   
  
This is the struct and the mapping:  
  
 struct Stake { uint256 tokenId; uint256 lockPeriod; uint256 startDate; address owner; } mapping(uint256 => Stake) public vault;   
  
WARN: THIS PARAGRAPH CONTAINS TAG: [CODE]   
  
When a user insert the staked tokenIds (ex. [1,345,10]) the return should be =>  
  
[ {1, lockperiod,StartDate,owner}, {245, lockperiod,StartDate,owner}, {10, lockperiod,StartDate,owner},]```Someone could help me please?Thank you  
  
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1 **Answer**

**A1:**We cannot get an array of structs currently in solidity as far as I have checked around on the internet, instead return an array of individual properties of the struct and access using their index ( as a workaround ). Kindly refer this answer also.  
  
// SPDX-License-Identifier: GPL-3.0pragma solidity >=0.7.0 <0.9.0;/\*\* \* @title Storage \* @dev Store & retrieve value in a variable \* @custom:dev-run-script ./scripts/deploy\_with\_ethers.ts \*/contract Storage { struct Stake { uint256 tokenId; uint256 lockPeriod; uint256 startDate; address owner; } mapping(uint256 => Stake) public vault; function loadData(uint256 tokenId, uint256 lockPeriod, uint256 startDate, address owner) public { Stake memory newStake = Stake(tokenId, lockPeriod, startDate, owner); vault[tokenId] = newStake; } function getNftInfo(uint256[] calldata tokenIdsInput) public view returns (uint256[] memory tokenIdsReturn, uint256[] memory lockPeriodsReturn, uint256[] memory startDatesReturn, address[] memory ownersReturn){ uint256 tokenId; uint256[] memory tokenIds = new uint256[](tokenIdsInput.length); uint256[] memory lockPeriods = new uint256[](tokenIdsInput.length); uint256[] memory startDates = new uint256[](tokenIdsInput.length); address[] memory owners = new address[](tokenIdsInput.length); for (uint i = 0; i < tokenIdsInput.length; i++) { tokenId = tokenIdsInput[i]; Stake storage staked = vault[tokenId]; tokenIds[i] = staked.tokenId; lockPeriods[i] = staked.lockPeriod; startDates[i] = staked.startDate; owners[i] = staked.owner; } return (tokenIds, lockPeriods, startDates, owners); }}  
  
WARN: THIS PARAGRAPH CONTAINS TAG: [CODE]

**C1:**that's the output for insert [1,2]: it seems only an array with index 0 with the 2 answer concatenated { "0": "tuple(uint256,uint256,uint256,address)[]: 1,1657616003,1657615943,0xAb8483F64d9C6d1EcF9b849Ae677dD3315835cb2,2,1657616003,1657615943,0xAb8483F64d9C6d1EcF9b849Ae677dD3315835cb2" }

**C2:**@PietroCiattaglia updated my answer!

**C3:**I had a similiar issue with the formatting of remix. Can you try to use openzeppelin defender to see the result from the view?