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1  // SPDX-License-Identifier: MIT
2  // OpenZeppelin Contracts (last updated v4.5.0)
   (token/ERC20/extensions/ERC20Burnable.sol)
3
4  pragma solidity ^0.8.0;
5
6  import "../ERC20.sol";
7  import "../../utils/Context.sol";
8
9  /**
10   * @dev Extension of {ERC20} that allows token holders to destroy both their own
11   * tokens and those that they have an allowance for, in a way that can be
12   * recognized off-chain (via event analysis).
13   */
14  abstract contract ERC20Burnable is Context, ERC20 {
15      /**
16       * @dev Destroys `amount` tokens from the caller.
17       *
18       * See {ERC20-_burn}.
19       */
20      function burn(uint256 amount) public virtual {
21          _burn(_msgSender(), amount);
22      }
23
24      /**
25       * @dev Destroys `amount` tokens from `account`, deducting from the caller's
26       * allowance.
27       *
28       * See {ERC20-_burn} and {ERC20-allowance}.
29       *
30       * Requirements:
31       *
32       * - the caller must have allowance for ``accounts``'s tokens of at least
33       * `amount`.
34       */
35      function burnFrom(address account, uint256 amount) public virtual {
36          _spendAllowance(account, _msgSender(), amount);
37          _burn(account, amount);
38      }
39  }
40

```