

```

1  pragma solidity >=0.5.0;
2
3  interface IUniswapV2Pair {
4      event Approval(address indexed owner, address indexed spender, uint value);
5      event Transfer(address indexed from, address indexed to, uint value);
6
7      function name() external pure returns (string memory);
8      function symbol() external pure returns (string memory);
9      function decimals() external pure returns (uint8);
10     function totalSupply() external view returns (uint);
11     function balanceOf(address owner) external view returns (uint);
12     function allowance(address owner, address spender) external view returns (uint);
13
14     function approve(address spender, uint value) external returns (bool);
15     function transfer(address to, uint value) external returns (bool);
16     function transferFrom(address from, address to, uint value) external returns (bool);
17
18     function DOMAIN_SEPARATOR() external view returns (bytes32);
19     function PERMIT_TYPEHASH() external pure returns (bytes32);
20     function nonces(address owner) external view returns (uint);
21
22     function permit(address owner, address spender, uint value, uint deadline, uint8 v
        , bytes32 r, bytes32 s) external;
23
24     event Mint(address indexed sender, uint amount0, uint amount1);
25     event Burn(address indexed sender, uint amount0, uint amount1, address indexed to)
        ;
26     event Swap(
27         address indexed sender,
28         uint amount0In,
29         uint amount1In,
30         uint amount0Out,
31         uint amount1Out,
32         address indexed to
33     );
34     event Sync(uint112 reserve0, uint112 reserve1);
35
36     function MINIMUM_LIQUIDITY() external pure returns (uint);
37     function factory() external view returns (address);
38     function token0() external view returns (address);
39     function token1() external view returns (address);
40     function getReserves() external view returns (uint112 reserve0, uint112 reserve1,
        uint32 blockTimestampLast);
41     function price0CumulativeLast() external view returns (uint);
42     function price1CumulativeLast() external view returns (uint);
43     function kLast() external view returns (uint);
44
45     function mint(address to) external returns (uint liquidity);
46     function burn(address to) external returns (uint amount0, uint amount1);
47     function swap(uint amount0Out, uint amount1Out, address to, bytes calldata data)
        external;
48     function skim(address to) external;
49     function sync() external;
50
51     function initialize(address, address) external;
52 }
53

```