```html
<!DOCTYPE html>
<html lang="es">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Blackjack</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css" rel="stylesheet"
integrity="sha384-1BmE4kWBq78iYhFldvKuhfTAU6auU8tT94WrHftjDbrCEXSU1oBoqyl2QvZ6jIW3" crossorigin="anonymous">
    <link rel="stylesheet" href="assets/css/styles.css">
    <!-- <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.4.1/css/bootstrap.min.css"
integrity="sha384-Vkoo8x4CGsO3+Hhxv8T/Q5PaXtkKtu6ug5TOeNV6gBiFeWPGFN9MuhOf23Q9Ifjh" crossorigin="anonymous"> -->

</head>
<body>
    <header class="titulo"> <!-- la clase .titulo en styles.css-->
        Blackjack - By: Christian Alexander Martinez Millan
    </header>

    <div class="row mt-2"> <!--mt-2 crea un margen -->
        <div id="divBotones" class="col text-center"> <!-- class="col text-center" centra el texto-->
            <button id="btnNuevo"   class="btn btn-danger">Nuevo Juego</button> <!-- class="btn btn-danger pone el boton
en rojo-->
            <button id="btnPedir"   class="btn btn-primary">Pedir Carta</button> <!--"btn btn-primary" pone el boton azul
-->
            <button id="btnDetener" class="btn btn-primary">Detener</button>
        </div>
    </div>
```

```html
    <div class="row container">
        <div class="col">
            <h1>Jugador 1 = <small id="small-jugador">0</small></h1> <!-- small ira acumulando el puntaje del jugador-->
            <div id="jugador-cartas"> <!-- #computadora-cartas, #jugador-cartas como id en styles.css-->
                <!-- <img class="carta" src="assets/cartas/2C.png"> <!-- class="carta" en styles.css -->
            </div>
        </div>
    </div>

    <div class="row container mt-2">
        <div class="col">
            <h1>Computadora = <small id="small-computadora">0</small></h1> <!-- small ira acumulando el puntaje del
jugador-->
            <div id="computadora-cartas"> <!-- #computadora-cartas, #jugador-cartas como id en styles.css-->
                <!-- <img class="carta" src="assets/cartas/2C.png"> <!-- class="carta" en styles.css -->
            </div>
        </div>
    </div>

    <script src="assets/js/underscore-min.js"></script>
    <script src="assets/js/juego.js"></script>

</body>
</html>

<!-- document.querySelector('header').innerText = 'alexander';
'alexander'  -----cambia BlackJack por alexander -->
```

```html
<!-- document.querySelector('img').src
'file:///C:/Users/cristian/Desktop/JavaScript/02-blackjack/assets/cartas/2C.png'    trae la ruta de la imagen-->

<!-- document.querySelector('img').src = 'file:///C:/Users/cristian/Desktop/JavaScript/02-blackjack/assets/cartas/5H.png'
'file:///C:/Users/cristian/Desktop/JavaScript/02-blackjack/assets/cartas/5H.png' -->

<!-- document.querySelectorAll('.carta')
NodeList(8) [img.carta, img.carta, img.carta, img.carta, img.carta, img.carta, img.carta, img.carta]
igual que en CSS, las clases se traen con . en este caso .carta -->

<!-- document.querySelectorAll('#computadora-cartas')
NodeList [div#computadora-cartas]
igual que en CSS los id se traen por numeral, en este caso #computadora-cartas -->



<!-- para crear un boton nuevo desde la consola de chrome:
const divBotones = document.querySelector('#divBotones')
undefined
divBotones
<div id="divBotones" class="col text-center">…</div>
document.createElement('button')
<button></button>
const botonNuevo = document.createElement('button')
undefined
botonNuevo
<button></button>
divBotones.append( botonNuevo )
undefined
```

```
botonNuevo.innerText = 'Destruir el Mundo'
'Destruir el Mundo'
botonNuevo.classList.add('btn')
undefined
botonNuevo.classList.add('btn-success')
undefined
-->

<!-- para crear un input con placeholder:
const input = document.createElement('input')
undefined
document.body.append( input )
undefined
input.classList.add('form-control')
undefined
input.placeholder = 'hola mundo'
'hola mundo'
-->
```

```css
html, body{
    margin: 5px;
    background-image: url('../wallpaper/kakeguri.jpg');
    background-color: red;
    color: white;
    background-attachment: fixed;
    background-size: 100% 100%;
}
.titulo{
    text-align: center;
    background-color: black;
    color: white;
    padding: 20px;
    font-size: 25px;
}
.carta{
    position: relative;
    width: 150px;
    left: 100px;
    margin-left: -75px;
}
#computadora-cartas, #jugador-cartas{
    height: 240px;
}
```

```javascript
/*
CARTAS:
2C = CLUB = TREBOL
2D = DIAMOND = DIAMANTES
2H = HEARTS = CORAZONES
2S = SPADES = PICAS O ESPADAS
*/

let deck = [];
const tipos = ['C','D','H','S'];
const especiales = ['A','J','Q','K'];

let puntosJugador = 0, puntosComputadora = 0;

//REFERENCIAS DEL HTML
const btnPedir            = document.querySelector('#btnPedir');
const btnDetener          = document.querySelector('#btnDetener');
const puntosHtmlJugador    = document.querySelector('#small-jugador');
const divCartasJugador     = document.querySelector('#jugador-cartas');
const puntosHtmlComputadora = document.querySelector('#small-computadora');
const divCartasComputadora  = document.querySelector('#computadora-cartas');
const btnNuevo            = document.querySelector('#btnNuevo');

//document.querySelector trae lo del html ya sea tags, id, class y lo depositamos en una variable

const crearDeck = () => {
    for(let i = 2;i <= 10; i++){ //2 es donde inician las cartas y van hasta 10 las cartas
        for(let tipo of tipos){ //cada numero del 1 al 10 pasa por cada elemento en el arreglo tipos
            deck.push(i + tipo);
```

```javascript
        }
    }

    for(let tipo of tipos){
        for(let esp of especiales){
            deck.push(esp + tipo); //cada especial(que vale como numero) va a pasar por cada tipo
        }
    }

    // console.log(deck); // deck ordenado
    deck = _.shuffle(deck);//_.shuffle(deck); Lo que hace es varajear el deck al azar https://underscorejs.org/#shuffle
    // https://underscorejs.org/#
    // console.log(deck); //deck al azar gracias a shuffle
    return deck;
}

crearDeck();

const pedirCarta = () => {
    if (deck.length === 0){
        throw 'No hay cartas en el deck';
        console.log('???');
    }

    const carta = deck.pop();
    // console.log(deck);
    // console.log(carta);
    return carta;
}
```

```javascript
//pedirCarta();

const valorCarta = (carta) => {
    const valor = carta.substring(0, carta.length-1); //corta el string desde posicion 0 pero no inclyendo el ultimo
elemento

    return (isNaN (valor))?
        (valor  === 'A')? 11 : 10
        : valor * 1;
}

//turno de la computadora
const turnoComputadora = (puntosMinimos) => {

    do{
        const carta = pedirCarta();
        console.log(carta);
        puntosComputadora = puntosComputadora + valorCarta(carta);
        console.log(puntosComputadora);
        puntosHtmlComputadora.innerText = puntosComputadora;
        // <div id="computadora-cartas"> <!-- #computadora-cartas, #jugador-cartas como id en styles.css-->
        // <!-- <img class="carta" src="assets/cartas/2C.png"> <!-- class="carta" en styles.css -->
        const imgCarta = document.createElement('img'); //crear una imagen
        imgCarta.src = `assets/cartas/${ carta }.png`; //ruta de La imagen
        divCartasComputadora.append(imgCarta); //insertar la imagen el la const divCartasJugador que asu vez apunta a
#jugador-cartas
        imgCarta.classList.add('carta'); //.class desde sytles.css
```

```javascript
        if(puntosMinimos > 21){
            break;
        }
    }while((puntosComputadora < puntosMinimos) && (puntosMinimos <= 21));

    setTimeout(() => { //setTimeOut hace que este bloque se ejecute quinientos milisegundos despues de haber terminado el
codigo del juego

        if(puntosComputadora === puntosMinimos){
                console.warn('EMPATE');
                alert('EMPATE');
        }else if(puntosMinimos > 21){
                console.warn('Computadora Gana');
                alert('Computadora Gana');
        }else if(puntosComputadora > 21){
                console.warn('Jugador Gana');
                alert('Jugador Gana');
        }else{
                console.warn('Computadora Gana');
                alert('Computadora Gana');
        }

    }, 500 ); //quinientos milisegundos, tiempo de retraso

}

//EVENTOS
btnPedir.addEventListener('click', () => {
    // console.log('prueba click pedir');
```

```javascript
    const carta = pedirCarta();
    console.log(carta);

    puntosJugador = puntosJugador + valorCarta(carta);
    console.log(puntosJugador);
    puntosHtmlJugador.innerText = puntosJugador;
    // puntosHtmlJugador[0].innerText = puntosJugador;

    // <div id="jugador-cartas"> <!-- #computadora-cartas, #jugador-cartas como id en styles.css-->
    // <!-- <img class="carta" src="assets/cartas/2C.png"> <!-- class="carta" en styles.css -->
    const imgCarta = document.createElement('img'); //crear una imagen
    imgCarta.src = `assets/cartas/${ carta }.png`; //ruta de la imagen
    divCartasJugador.append(imgCarta); //insertar la imagen el la const divCartasJugador que asu vez apunta a #jugador-cartas
    imgCarta.classList.add('carta'); //.class desde sytles.css

    if(puntosJugador > 21){
        console.warn('jugador pierde');
        btnPedir.disabled = true;
        btnDetener.disabled = true;
        turnoComputadora(puntosJugador); //puntosJugador entra como argumento puntosMinimos
    }else if(puntosJugador === 21){
        console.warn('21, jugador gana');
        btnPedir.disabled = true;
        btnDetener.disabled = true;
        turnoComputadora(puntosJugador);
    }

});
```

```javascript
btnDetener.addEventListener('click', () => {
    btnPedir.disabled = true;
    btnDetener.disabled = true;
    turnoComputadora(puntosJugador);
});

btnNuevo.addEventListener('click', () => {
    console.clear();

    deck = [];
    deck = crearDeck();
    console.log(deck);

    puntosJugador = 0;
    puntosComputadora = 0;

    puntosHtmlJugador.innerText = 0;
    puntosHtmlComputadora.innerText = 0;

    divCartasJugador.innerHTML = '';
    divCartasComputadora.innerHTML = '';

    btnPedir.disabled = false;
    btnDetener.disabled = false;
});

// const valor = valorCarta(pedirCarta());
```

```javascript
// console.log({valor});

/*
const valorCarta = (carta) => {
    // const valor = carta[0]; //extrae la posicion 0 del string '2D'
    const valor = carta.substring(0, carta.length-1); //corta el string desde posicion 0 pero no inclyendo el ultimo
elemento
    console.log({valor});
    if (isNaN(valor)){ //if is not a number?
        //console.log('no es un numero');
        puntos = (valor === 'A')? 11 : 10;
        // si es A entonces vale 11, si es otra letra entonces vale 10, sino es numero


    }else{
        //console.log('es un numero');
        puntos = valor * 1; // *1 covierte el valor en numerico
    }
    console.log(puntos);
}

valorCarta('9D');
*/
```

```javascript
!function(n,r){"object"==typeof exports&&"undefined"!=typeof module?module.exports=r():"function"==typeof
define&&define.amd?define("underscore",r):(n="undefined"!=typeof globalThis?globalThis:n||self,function(){var
t=n._,e=n._=r();e.noConflict=function(){return n._=t,e}}())}(this,(function(){
    //     Underscore.js 1.13.2
    //     https://underscorejs.org
    //     (c) 2009-2021 Jeremy Ashkenas, Julian Gonggrijp, and DocumentCloud and Investigative Reporters & Editors
    //     Underscore may be freely distributed under the MIT License.
    var n="1.13.2",r="object"==typeof self&&self.self===self&&self||"object"==typeof
global&&global.global===global&&global||Function("return
this")()||{},t=Array.prototype,e=Object.prototype,u="undefined"!=typeof
Symbol?Symbol.prototype:null,o=t.push,i=t.slice,a=e.toString,f=e.hasOwnProperty,c="undefined"!=typeof
ArrayBuffer,l="undefined"!=typeof
DataView,s=Array.isArray,p=Object.keys,v=Object.create,h=c&&ArrayBuffer.isView,y=isNaN,d=isFinite,g=!{toString:null}.prop
ertyIsEnumerable("toString"),b=["valueOf","isPrototypeOf","toString","propertyIsEnumerable","hasOwnProperty","toLocaleStr
ing"],m=Math.pow(2,53)-1;function j(n,r){return r=null==r?n.length-1:+r,function(){for(var t=Math.max(arguments.length-
r,0),e=Array(t),u=0;u<t;u++)e[u]=arguments[u+r];switch(r){case 0:return n.call(this,e);case 1:return
n.call(this,arguments[0],e);case 2:return n.call(this,arguments[0],arguments[1],e)}var
o=Array(r+1);for(u=0;u<r;u++)o[u]=arguments[u];return o[r]=e,n.apply(this,o)}}function _(n){var r=typeof
n;return"function"===r||"object"===r&&!!n}function w(n){return void 0===n}function A(n){return!0===n||!1===n||"[object
Boolean]"===a.call(n)}function x(n){var r="[object "+n+"]";return function(n){return a.call(n)===r}}var
S=x("String"),O=x("Number"),M=x("Date"),E=x("RegExp"),B=x("Error"),N=x("Symbol"),I=x("ArrayBuffer"),T=x("Function"),k=r.d
ocument&&r.document.childNodes;"function"!=typeof/./&&"object"!=typeof Int8Array&&"function"!=typeof
k&&(T=function(n){return"function"==typeof n||!1});var D=T,R=x("Object"),F=l&&R(new DataView(new
ArrayBuffer(8))),V="undefined"!=typeof Map&&R(new Map),P=x("DataView");var q=F?function(n){return
null!=n&&D(n.getInt8)&&I(n.buffer)}:P,U=s||x("Array");function W(n,r){return null!=n&&f.call(n,r)}var
z=x("Arguments");!function(){z(arguments)||(z=function(n){return W(n,"callee")})}();var L=z;function $(n){return
O(n)&&y(n)}function C(n){return function(){return n}}function K(n){return function(r){var t=n(r);return"number"==typeof
t&&t>=0&&t<=m}}function J(n){return function(r){return null==r?void 0:r[n]}}var G=J("byteLength"),H=K(G),Q=/\[object
((I|Ui)nt(8|16|32)|Float(32|64)|Uint8Clamped|Big(I|Ui)nt64)Array\]/;var X=c?function(n){return
```

```
h?h(n)&&!q(n):H(n)&&Q.test(a.call(n))}:C(!1),Y=J("length");function Z(n,r){r=function(n){for(var
r={},t=n.length,e=0;e<t;++e)r[n[e]]=!0;return{contains:function(n){return!0===r[n]},push:function(t){return
r[t]=!0,n.push(t)}}}(r);var
t=b.length,u=n.constructor,o=D(u)&&u.prototype||e,i="constructor";for(W(n,i)&&!r.contains(i)&&r.push(i);t--;)(i=b[t])in
n&&n[i]!==o[i]&&!r.contains(i)&&r.push(i)}function nn(n){if(!_(n))return[];if(p)return p(n);var r=[];for(var t in
n)W(n,t)&&r.push(t);return g&&Z(n,r),r}function rn(n,r){var t=nn(r),e=t.length;if(null==n)return!e;for(var
u=Object(n),o=0;o<e;o++){var i=t[o];if(r[i]!==u[i]||!(i in u))return!1}return!0}function tn(n){return n instanceof
tn?n:this instanceof tn?void(this._wrapped=n):new tn(n)}function en(n){return new
Uint8Array(n.buffer||n,n.byteOffset||0,G(n))}tn.VERSION=n,tn.prototype.value=function(){return
this._wrapped},tn.prototype.valueOf=tn.prototype.toJSON=tn.prototype.value,tn.prototype.toString=function(){return
String(this._wrapped)};var un="[object DataView]";function on(n,r,t,e){if(n===r)return
0!==n||1/n==1/r;if(null==n||null==r)return!1;if(n!=n)return r!=r;var o=typeof
n;return("function"===o||"object"===o||"object"==typeof r)&&function n(r,t,e,o){r instanceof tn&&(r=r._wrapped);t
instanceof tn&&(t=t._wrapped);var i=a.call(r);if(i!==a.call(t))return!1;if(F&&"[object
Object]"==i&&q(r)){if(!q(t))return!1;i=un}switch(i){case"[object RegExp]":case"[object
String]":return""+r==""+t;case"[object Number]":return+r!=+r?+t!=+t:0==+r?1/+r==1/t:+r==+t;case"[object
Date]":case"[object Boolean]":return+r==+t;case"[object Symbol]":return
u.valueOf.call(r)===u.valueOf.call(t);case"[object ArrayBuffer]":case un:return n(en(r),en(t),e,o)}var f="[object
Array]"===i;if(!f&&X(r)){if(G(r)!==G(t))return!1;if(r.buffer===t.buffer&&r.byteOffset===t.byteOffset)return!0;f=!0}if(!f)
{if("object"!=typeof r||"object"!=typeof t)return!1;var c=r.constructor,l=t.constructor;if(c!==l&&!(D(c)&&c instanceof
c&&D(l)&&l instanceof l)&&"constructor"in r&&"constructor"in t)return!1}o=o||[];var s=(e=e||[]).length;for(;s--
;)if(e[s]===r)return o[s]===t;if(e.push(r),o.push(t),f){if((s=r.length)!==t.length)return!1;for(;s--
;)if(!on(r[s],t[s],e,o))return!1}else{var p,v=nn(r);if(s=v.length,nn(t).length!==s)return!1;for(;s--
;)if(p=v[s],!W(t,p)||!on(r[p],t[p],e,o))return!1}return e.pop(),o.pop(),!0}(n,r,t,e)}function an(n){if(!_(n))return[];var
r=[];for(var t in n)r.push(t);return g&&Z(n,r),r}function fn(n){var r=Y(n);return function(t){if(null==t)return!1;var
e=an(t);if(Y(e))return!1;for(var u=0;u<r;u++)if(!D(t[n[u]]))return!1;return n!==hn||!D(t[cn])}}var
cn="forEach",ln="has",sn=["clear","delete"],pn=["get",ln,"set"],vn=sn.concat(cn,pn),hn=sn.concat(pn),yn=["add"].concat(sn
,cn,ln),dn=V?fn(vn):x("Map"),gn=V?fn(hn):x("WeakMap"),bn=V?fn(yn):x("Set"),mn=x("WeakSet");function jn(n){for(var
r=nn(n),t=r.length,e=Array(t),u=0;u<t;u++)e[u]=n[r[u]];return e}function _n(n){for(var
```

```javascript
r={},t=nn(n),e=0,u=t.length;e<u;e++)r[n[t[e]]]=t[e];return r}function wn(n){var r=[];for(var t in
n)D(n[t])&&r.push(t);return r.sort()}function An(n,r){return function(t){var
e=arguments.length;if(r&&(t=Object(t)),e<2||null==t)return t;for(var u=1;u<e;u++)for(var
o=arguments[u],i=n(o),a=i.length,f=0;f<a;f++){var c=i[f];r&&void 0!==t[c]||(t[c]=o[c])}return t}}var
xn=An(an),Sn=An(nn),On=An(an,!0);function Mn(n){if(!_(n))return{};if(v)return v(n);var r=function(){};r.prototype=n;var
t=new r;return r.prototype=null,t}function En(n){return U(n)?n:[n]}function Bn(n){return tn.toPath(n)}function
Nn(n,r){for(var t=r.length,e=0;e<t;e++){if(null==n)return;n=n[r[e]]}return t?n:void 0}function In(n,r,t){var
e=Nn(n,Bn(r));return w(e)?t:e}function Tn(n){return n}function kn(n){return n=Sn({},n),function(r){return
rn(r,n)}}function Dn(n){return n=Bn(n),function(r){return Nn(r,n)}}function Rn(n,r,t){if(void 0===r)return
n;switch(null==t?3:t){case 1:return function(t){return n.call(r,t)};case 3:return function(t,e,u){return
n.call(r,t,e,u)};case 4:return function(t,e,u,o){return n.call(r,t,e,u,o)}}return function(){return
n.apply(r,arguments)}}function Fn(n,r,t){return null==n?Tn:D(n)?Rn(n,r,t):_(n)&&!U(n)?kn(n):Dn(n)}function Vn(n,r){return
Fn(n,r,1/0)}function Pn(n,r,t){return tn.iteratee!==Vn?tn.iteratee(n,r):Fn(n,r,t)}function qn(){}function Un(n,r){return
null==r&&(r=n,n=0),n+Math.floor(Math.random()*(r-n+1))}tn.toPath=En,tn.iteratee=Vn;var Wn=Date.now||function(){return(new
Date).getTime()};function zn(n){var r=function(r){return
n[r]},t="(?:"+nn(n).join("|")+")",e=RegExp(t),u=RegExp(t,"g");return function(n){return
n=null==n?"":""+n,e.test(n)?n.replace(u,r):n}}var
Ln={"&":"&amp;","<":"&lt;",">":"&gt;",'"':"&quot;","'":"&#x27;","`":"&#x60;"},$n=zn(Ln),Cn=zn(_n(Ln)),Kn=tn.templateSetti
ngs={evaluate:/<%([\s\S]+?)%>/g,interpolate:/<%=([\s\S]+?)%>/g,escape:/<%-
([\s\S]+?)%>/g},Jn=/(.)^/,Gn={"'":"'","\\":"\\","\r":"r","\n":"n","\u2028":"u2028","\u2029":"u2029"},Hn=/\\|'|\r|\n|\u202
8|\u2029/g;function Qn(n){return"\\"+Gn[n]}var Xn=/^\s*(\w|\$)+\s*$/;var Yn=0;function Zn(n,r,t,e,u){if(!(e instanceof
r))return n.apply(t,u);var o=Mn(n.prototype),i=n.apply(o,u);return _(i)?i:o}var nr=j((function(n,r){var
t=nr.placeholder,e=function(){for(var
u=0,o=r.length,i=Array(o),a=0;a<o;a++)i[a]=r[a]===t?arguments[u++]:r[a];for(;u<arguments.length;)i.push(arguments[u++]);r
eturn Zn(n,e,this,this,i)};return e}));nr.placeholder=tn;var rr=j((function(n,r,t){if(!D(n))throw new TypeError("Bind
must be called on a function");var e=j((function(u){return Zn(n,e,r,this,t.concat(u))}));return e})),tr=K(Y);function
er(n,r,t,e){if(e=e||[],r||0===r){if(r<=0)return e.concat(n)}else r=1/0;for(var u=e.length,o=0,i=Y(n);o<i;o++){var
a=n[o];if(tr(a)&&(U(a)||L(a)))if(r>1)er(a,r-1,t,e),u=e.length;else for(var f=0,c=a.length;f<c;)e[u++]=a[f++];else
t||(e[u++]=a)}return e}var ur=j((function(n,r){var t=(r=er(r,!1,!1)).length;if(t<1)throw new Error("bindAll must be
```

```
passed function names");for(;t--;){var e=r[t];n[e]=rr(n[e],n)}return n}));var or=j((function(n,r,t){return
setTimeout((function(){return n.apply(null,t)}),r)})),ir=nr(or,tn,1);function ar(n){return
function(){return!n.apply(this,arguments)}}function fr(n,r){var t;return function(){return--
n>0&&(t=r.apply(this,arguments)),n<=1&&(r=null),t}}var cr=nr(fr,2);function lr(n,r,t){r=Pn(r,t);for(var
e,u=nn(n),o=0,i=u.length;o<i;o++)if(r(n[e=u[o]],e,n))return e}function sr(n){return function(r,t,e){t=Pn(t,e);for(var
u=Y(r),o=n>0?0:u-1;o>=0&&o<u;o+=n)if(t(r[o],o,r))return o;return-1}}var pr=sr(1),vr=sr(-1);function hr(n,r,t,e){for(var
u=(t=Pn(t,e,1))(r),o=0,i=Y(n);o<i;){var a=Math.floor((o+i)/2);t(n[a])<u?o=a+1:i=a}return o}function yr(n,r,t){return
function(e,u,o){var a=0,f=Y(e);if("number"==typeof o)n>0?a=o>=0?o:Math.max(o+f,a):f=o>=0?Math.min(o+1,f):o+f+1;else
if(t&&o&&f)return e[o=t(e,u)]===u?o:-1;if(u!=u)return(o=r(i.call(e,a,f),$))>=0?o+a:-1;for(o=n>0?a:f-
1;o>=0&&o<f;o+=n)if(e[o]===u)return o;return-1}}var dr=yr(1,pr,hr),gr=yr(-1,vr);function br(n,r,t){var
e=(tr(n)?pr:lr)(n,r,t);if(void 0!==e&&-1!==e)return n[e]}function mr(n,r,t){var
e,u;if(r=Rn(r,t),tr(n))for(e=0,u=n.length;e<u;e++)r(n[e],e,n);else{var
o=nn(n);for(e=0,u=o.length;e<u;e++)r(n[o[e]],o[e],n)}return n}function jr(n,r,t){r=Pn(r,t);for(var
e=!tr(n)&&nn(n),u=(e||n).length,o=Array(u),i=0;i<u;i++){var a=e?e[i]:i;o[i]=r(n[a],a,n)}return o}function _r(n){var
r=function(r,t,e,u){var o=!tr(r)&&nn(r),i=(o||r).length,a=n>0?0:i-1;for(u||(e=r[o?o[a]:a],a+=n);a>=0&&a<i;a+=n){var
f=o?o[a]:a;e=t(e,r[f],f,r)}return e};return function(n,t,e,u){var o=arguments.length>=3;return r(n,Rn(t,u,4),e,o)}}var
wr=_r(1),Ar=_r(-1);function xr(n,r,t){var e=[];return r=Pn(r,t),mr(n,(function(n,t,u){r(n,t,u)&&e.push(n)})),e}function
Sr(n,r,t){r=Pn(r,t);for(var e=!tr(n)&&nn(n),u=(e||n).length,o=0;o<u;o++){var
i=e?e[o]:o;if(!r(n[i],i,n))return!1}return!0}function Or(n,r,t){r=Pn(r,t);for(var
e=!tr(n)&&nn(n),u=(e||n).length,o=0;o<u;o++){var i=e?e[o]:o;if(r(n[i],i,n))return!0}return!1}function Mr(n,r,t,e){return
tr(n)||(n=jn(n)),("number"!=typeof t||e)&&(t=0),dr(n,r,t)>=0}var Er=j((function(n,r,t){var e,u;return
D(r)?u=r:(r=Bn(r),e=r.slice(0,-1),r=r[r.length-1]),jr(n,(function(n){var
o=u;if(!o){if(e&&e.length&&(n=Nn(n,e)),null==n)return;o=n[r]}return null==o?o:o.apply(n,t)}))}));function Br(n,r){return
jr(n,Dn(r))}function Nr(n,r,t){var e,u,o=-1/0,i=-1/0;if(null==r||"number"==typeof r&&"object"!=typeof
n[0]&&null!=n)for(var a=0,f=(n=tr(n)?n:jn(n)).length;a<f;a++)null!=(e=n[a])&&e>o&&(o=e);else
r=Pn(r,t),mr(n,(function(n,t,e){((u=r(n,t,e))>i||u===-1/0&&o===-1/0)&&(o=n,i=u)}));return o}var Ir=/[^\ud800-
\udfff]|[\ud800-\udbff][\udc00-\udfff]|[\ud800-\udfff]/g;function Tr(n){return
n?U(n)?i.call(n):S(n)?n.match(Ir):tr(n)?jr(n,Tn):jn(n):[]}function kr(n,r,t){if(null==r||t)return
tr(n)||(n=jn(n)),n[Un(n.length-1)];var e=Tr(n),u=Y(e);r=Math.max(Math.min(r,u),0);for(var o=u-1,i=0;i<r;i++){var
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a=Un(i,o),f=e[i];e[i]=e[a],e[a]=f}return e.slice(0,r)}function Dr(n,r){return function(t,e,u){var o=r?[[],[]]:{};return
e=Pn(e,u),mr(t,(function(r,u){var i=e(r,u,t);n(o,r,i)})),o}}var
Rr=Dr((function(n,r,t){W(n,t)?n[t].push(r):n[t]=[r]})),Fr=Dr((function(n,r,t){n[t]=r})),Vr=Dr((function(n,r,t){W(n,t)?n[t
]++:n[t]=1})),Pr=Dr((function(n,r,t){n[t?0:1].push(r)}),!0);function qr(n,r,t){return r in t}var Ur=j((function(n,r){var
t={},e=r[0];if(null==n)return t;D(e)?(r.length>1&&(e=Rn(e,r[1])),r=an(n)):(e=qr,r=er(r,!1,!1),n=Object(n));for(var
u=0,o=r.length;u<o;u++){var i=r[u],a=n[i];e(a,i,n)&&(t[i]=a)}return t})),Wr=j((function(n,r){var t,e=r[0];return
D(e)?(e=ar(e),r.length>1&&(t=r[1])):(r=jr(er(r,!1,!1),String),e=function(n,t){return!Mr(r,t)}),Ur(n,e,t)}));function
zr(n,r,t){return i.call(n,0,Math.max(0,n.length-(null==r||t?1:r)))}function Lr(n,r,t){return
null==n||n.length<1?null==r||t?void 0:[]:null==r||t?n[0]:zr(n,n.length-r)}function $r(n,r,t){return
i.call(n,null==r||t?1:r)}var Cr=j((function(n,r){return
r=er(r,!0,!0),xr(n,(function(n){return!Mr(r,n)}))})),Kr=j((function(n,r){return Cr(n,r)}));function
Jr(n,r,t,e){A(r)||(e=t,t=r,r=!1),null!=t&&(t=Pn(t,e));for(var u=[],o=[],i=0,a=Y(n);i<a;i++){var
f=n[i],c=t?t(f,i,n):f;r&&!t?(i&&o===c||u.push(f),o=c):t?Mr(o,c)||(o.push(c),u.push(f)):Mr(u,f)||u.push(f)}return u}var
Gr=j((function(n){return Jr(er(n,!0,!0))}));function Hr(n){for(var
r=n&&Nr(n,Y).length||0,t=Array(r),e=0;e<r;e++)t[e]=Br(n,e);return t}var Qr=j(Hr);function Xr(n,r){return
n._chain?tn(r).chain():r}function Yr(n){return mr(wn(n),(function(r){var t=tn[r]=n[r];tn.prototype[r]=function(){var
n=[this._wrapped];return
o.apply(n,arguments),Xr(this,t.apply(tn,n))}}),tn}mr(["pop","push","reverse","shift","sort","splice","unshift"],(functio
n(n){var r=t[n];tn.prototype[n]=function(){var t=this._wrapped;return
null!=t&&(r.apply(t,arguments),"shift"!==n&&"splice"!==n||0!==t.length||delete
t[0]),Xr(this,t)}})),mr(["concat","join","slice"],(function(n){var r=t[n];tn.prototype[n]=function(){var
n=this._wrapped;return null!=n&&(n=r.apply(n,arguments)),Xr(this,n)}}));var
Zr=Yr({__proto__:null,VERSION:n,restArguments:j,isObject:_,isNull:function(n){return
null===n},isUndefined:w,isBoolean:A,isElement:function(n){return!(!n||1!==n.nodeType)},isString:S,isNumber:O,isDate:M,isR
egExp:E,isError:B,isSymbol:N,isArrayBuffer:I,isDataView:q,isArray:U,isFunction:D,isArguments:L,isFinite:function(n){retur
n!N(n)&&d(n)&&!isNaN(parseFloat(n))},isNaN:$,isTypedArray:X,isEmpty:function(n){if(null==n)return!0;var
r=Y(n);return"number"==typeof r&&(U(n)||S(n)||L(n))?0===r:0===Y(nn(n))},isMatch:rn,isEqual:function(n,r){return
on(n,r)},isMap:dn,isWeakMap:gn,isSet:bn,isWeakSet:mn,keys:nn,allKeys:an,values:jn,pairs:function(n){for(var
r=nn(n),t=r.length,e=Array(t),u=0;u<t;u++)e[u]=[r[u],n[r[u]]];return
```

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e},invert:_n,functions:wn,methods:wn,extend:xn,extendOwn:Sn,assign:Sn,defaults:On,create:function(n,r){var t=Mn(n);return
r&&Sn(t,r),t},clone:function(n){return _(n)?U(n)?n.slice():xn({},n):n},tap:function(n,r){return
r(n),n},get:In,has:function(n,r){for(var t=(r=Bn(r)).length,e=0;e<t;e++){var
u=r[e];if(!W(n,u))return!1;n=n[u]}return!!t},mapObject:function(n,r,t){r=Pn(r,t);for(var
e=nn(n),u=e.length,o={},i=0;i<u;i++){var a=e[i];o[a]=r(n[a],a,n)}return
o},identity:Tn,constant:C,noop:qn,toPath:En,property:Dn,propertyOf:function(n){return null==n?qn:function(r){return
In(n,r)}},matcher:kn,matches:kn,times:function(n,r,t){var e=Array(Math.max(0,n));r=Rn(r,t,1);for(var
u=0;u<n;u++)e[u]=r(u);return
e},random:Un,now:Wn,escape:$n,unescape:Cn,templateSettings:Kn,template:function(n,r,t){!r&&t&&(r=t),r=On({},r,tn.template
Settings);var
e=RegExp([(r.escape||Jn).source,(r.interpolate||Jn).source,(r.evaluate||Jn).source].join("|")+"|$","g"),u=0,o="__p+='";n.
replace(e,(function(r,t,e,i,a){return
o+=n.slice(u,a).replace(Hn,Qn),u=a+r.length,t?o+="'+\n((__t=("+t+"))==null?'':_.escape(__t))+\n'":e?o+="'+\n((__t=("+e+")
)==null?'':__t)+\n'":i&&(o+="';\n"+i+"\n__p+='"),r})),o+="';\n";var i,a=r.variable;if(a){if(!Xn.test(a))throw new
Error("variable is not a bare identifier: "+a)}else o="with(obj||{}){\n"+o+"}\n",a="obj";o="var
__t,__p='',__j=Array.prototype.join,"+"print=function(){__p+=__j.call(arguments,'');};\n"+o+"return __p;\n";try{i=new
Function(a,"_",o)}catch(n){throw n.source=o,n}var f=function(n){return i.call(this,n,tn)};return
f.source="function("+a+"){\n"+o+"}",f},result:function(n,r,t){var e=(r=Bn(r)).length;if(!e)return
D(t)?t.call(n):t;for(var u=0;u<e;u++){var o=null==n?void 0:n[r[u]];void 0===o&&(o=t,u=e),n=D(o)?o.call(n):o}return
n},uniqueId:function(n){var r=++Yn+"";return n?n+r:r},chain:function(n){var r=tn(n);return
r._chain=!0,r},iteratee:Vn,partial:nr,bind:rr,bindAll:ur,memoize:function(n,r){var t=function(e){var
u=t.cache,o=""+(r?r.apply(this,arguments):e);return W(u,o)||(u[o]=n.apply(this,arguments)),u[o]};return
t.cache={},t},delay:or,defer:ir,throttle:function(n,r,t){var e,u,o,i,a=0;t||(t={});var
f=function(){a=!1===t.leading?0:Wn(),e=null,i=n.apply(u,o),e||(u=o=null)},c=function(){var
c=Wn();a||!1!==t.leading||(a=c);var l=r-(c-a);return
u=this,o=arguments,l<=0||l>r?(e&&(clearTimeout(e),e=null),a=c,i=n.apply(u,o),e||(u=o=null)):e||!1===t.trailing||(e=setTim
eout(f,l)),i};return c.cancel=function(){clearTimeout(e),a=0,e=u=o=null},c},debounce:function(n,r,t){var
e,u,o,i,a,f=function(){var c=Wn()-u;r>c?e=setTimeout(f,r-
c):(e=null,t||(i=n.apply(a,o)),e||(o=a=null))},c=j((function(c){return
```

```javascript
a=this,o=c,u=Wn(),e||(e=setTimeout(f,r),t&&(i=n.apply(a,o))),i}));return
c.cancel=function(){clearTimeout(e),e=o=a=null},c},wrap:function(n,r){return nr(r,n)},negate:ar,compose:function(){var
n=arguments,r=n.length-1;return function(){for(var t=r,e=n[r].apply(this,arguments);t--;)e=n[t].call(this,e);return
e}},after:function(n,r){return function(){if(--n<1)return
r.apply(this,arguments)}},before:fr,once:cr,findKey:lr,findIndex:pr,findLastIndex:vr,sortedIndex:hr,indexOf:dr,lastIndexO
f:gr,find:br,detect:br,findWhere:function(n,r){return
br(n,kn(r))},each:mr,forEach:mr,map:jr,collect:jr,reduce:wr,foldl:wr,inject:wr,reduceRight:Ar,foldr:Ar,filter:xr,select:x
r,reject:function(n,r,t){return
xr(n,ar(Pn(r)),t)},every:Sr,all:Sr,some:Or,any:Or,contains:Mr,includes:Mr,include:Mr,invoke:Er,pluck:Br,where:function(n,
r){return xr(n,kn(r))},max:Nr,min:function(n,r,t){var e,u,o=1/0,i=1/0;if(null==r||"number"==typeof r&&"object"!=typeof
n[0]&&null!=n)for(var a=0,f=(n=tr(n)?n:jn(n)).length;a<f;a++)null!=(e=n[a])&&e<o&&(o=e);else
r=Pn(r,t),mr(n,(function(n,t,e){((u=r(n,t,e))<i||u===1/0&&o===1/0)&&(o=n,i=u)}));return o},shuffle:function(n){return
kr(n,1/0)},sample:kr,sortBy:function(n,r,t){var e=0;return
r=Pn(r,t),Br(jr(n,(function(n,t,u){return{value:n,index:e++,criteria:r(n,t,u)}})).sort((function(n,r){var
t=n.criteria,e=r.criteria;if(t!==e){if(t>e||void 0===t)return 1;if(t<e||void 0===e)return-1}return n.index-
r.index})),"value")},groupBy:Rr,indexBy:Fr,countBy:Vr,partition:Pr,toArray:Tr,size:function(n){return
null==n?0:tr(n)?n.length:nn(n).length},pick:Ur,omit:Wr,first:Lr,head:Lr,take:Lr,initial:zr,last:function(n,r,t){return
null==n||n.length<1?null==r||t?void 0:[]:null==r||t?n[n.length-1]:$r(n,Math.max(0,n.length-
r))},rest:$r,tail:$r,drop:$r,compact:function(n){return xr(n,Boolean)},flatten:function(n,r){return
er(n,r,!1)},without:Kr,uniq:Jr,unique:Jr,union:Gr,intersection:function(n){for(var
r=[],t=arguments.length,e=0,u=Y(n);e<u;e++){var o=n[e];if(!Mr(r,o)){var
i;for(i=1;i<t&&Mr(arguments[i],o);i++);i===t&&r.push(o)}}return
r},difference:Cr,unzip:Hr,transpose:Hr,zip:Qr,object:function(n,r){for(var
t={},e=0,u=Y(n);e<u;e++)r?t[n[e]]=r[e]:t[n[e][0]]=n[e][1];return
t},range:function(n,r,t){null==r&&(r=n||0,n=0),t||(t=r<n?-1:1);for(var e=Math.max(Math.ceil((r-
n)/t),0),u=Array(e),o=0;o<e;o++,n+=t)u[o]=n;return u},chunk:function(n,r){if(null==r||r<1)return[];for(var
t=[],e=0,u=n.length;e<u;)t.push(i.call(n,e,e+=r));return t},mixin:Yr,default:tn});return Zr._=Zr,Zr}));
```

CODIGO JUEGO BLACKJACK 21 (NO OPTIMIZADO)

MADE BY CHRISTIAN ALEXANDER MARTINEZ MILLAN

SDK: VISUAL STUDIO CODE – JAVASCRIPT

LIBRERIAS Y UTILIDADES: BOOTSTRAP, UNDERSCORE, MINIFIER