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<script type='text/javascript'
src='https://ajax.googleapis.com/ajax/libs/jquery/1/jquery.min.js'></script>
<script type='text/javascript' src='head.js'></script>
<div style="width:100%;height:100%;display:flex;justify-content: center;align-items:center;">
    <div id="mega" style="display:flex;width:1050px;height:1050px;border:0px solid
black;justify-content: center;align-items:center;flex-direction: column; z-index:100;">
        </div>
</div>
<script>
$( document ).ready(function()
    {
        mycreate();
        //обработчик нажатий на кнопки
        $( document ).keydown(
        function( e )
            {
                //alert(e.keyCode); // 38 vverh; 40 vniz
                switch(e.keyCode)
                {
                    //case 75:mycreate();break;//shift
                    case 13:life();break;//enter
                    case 38:game_expand("n");break;//north
                    case 40:game_expand("s");break;//south
                    case 37:game_expand("w");break;//west
                    case 39:game_expand("e");break;//east
                    case 69:experiment();break;//e
                }
            }
        );
    });
var speed=100;
var x_height=7;
var x_width=7;
var mx_height=1;
var mx_width=1;
var redarray=[];
var cell_size;
function experiment()
{
    redarraydelete("p_0_p_6");
    console.log(print_r(redarray));
}
function mycreate()
{
    var pointer=document.getElementById("mega");
    var megax,megay;
    megax=pointer.style.width;
    megay=pointer.style.height;

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megax=parseInt(megax);
megay=parseInt(megay);
//console.log("megax="+megax+"megay="+megay);
var stroka="";
var j,r,g,b,color;
var i=1;
var max_x;
if(x_height>x_width)
{
    max_x=x_height;
}
else
{
    max_x=x_width;
}
cell_size=megax/max_x;
while(i<=x_height)
{
    stroka+="
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//mx_height
//mx_width

var pointer=document.getElementById("mega");
var megax,megay;
megax=pointer.style.width;
megay=pointer.style.height;
megax=parseInt(megax);
megay=parseInt(megay);
var table_size;
if((x_height-mx_height)>(x_width-mx_width))
{
    table_size=(x_height-mx_height);
}
else
{
    table_size=(x_width-mx_width);
}

var name;
var sml_pointer;
var final_size=0;
//final_size=150*x_height/table_size;
for(var i=mx_height;i<x_height+1;i++)
{
    for(var u=mx_width;u<x_width+1;u++)
    {
        name='cell_';
        if(i<0)
        {
            name+='m_';
            name+=Math.abs(i);
            name+='_';
        }
        else
        {
            name+='p_';
            name+=Math.abs(i);
            name+='_';
        }
        if(u<0)
        {
            name+='m_';
            name+=Math.abs(u);
        }
        else
        {
            name+='p_';
        }
    }
}

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                name+=Math.abs(u);
            }
            sml_pointer=document.getElementById(name);

            sml_pointer.style.height=150*7/table_size;
            sml_pointer.style.width=150*7/table_size;

        }
    }
}
/*function makelifeold(i,j)
{
    var pointer=document.getElementById("cell_"+i+"_"+j);
    pointer.style.backgroundColor="red";
    //redarray[redarray.length]=i+"_"+j;
    console.log("test1="+i+"_"+j);
    redarrayappend(i+"_"+j);
    var spliti=explode("_",i);
    var splitj=explode("_",j);
    if(spliti[1]>1)
    {
        redarrayappend("p_"+(1*spliti[1]-1)+"_"+j);
    }
    if(splitj[1]>1)
    {
        redarrayappend(i+"_"+"p_"+(1*splitj[1]-1));
    }
    if(spliti[1]>1 && splitj[1]>1)
    {
        redarrayappend("p_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]-1));
    }
    if(spliti[1]>1 && splitj[1]<x_width)
    {
        redarrayappend("p_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]+1));
    }
    if(splitj[1]<x_width)
    {
        redarrayappend(i+"_"+"p_"+(1*splitj[1]+1));
    }
    if(spliti[1]<x_height)
    {
        redarrayappend("p_"+(1*spliti[1]+1)+"_"+j);
    }
    if(spliti[1]<x_height && splitj[1]>1)
    {
        redarrayappend("p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]-1));
    }
}

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    if(spliti[1]<x_height && splitj[1]<x_width)
    {
        redarrayappend("p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]+1));
    }
    var splitj=explode("_",j);
//    console.log("redarray="+redarray);
    console.log(print_r(redarray));
}
*/
function makelife(i,j)
{
    var pointer=document.getElementById("cell_"+i+"_"+j);
    pointer.style.backgroundColor="red";
    //redarray[redarray.length]=i+"_"+j;
    //console.log("test1="+i+"_"+j);
    redarrayappend(i+"_"+j);
    var spliti=explode("_",i);
    var splitj=explode("_",j);
    if((spliti[0]=="m" && spliti[1]==Math.abs(mx_height)) || (spliti[0]=="p" && (spliti[1]==1 ||
spliti[1]==0) && spliti[1]==mx_height))
    {
        //console.log('i='+i+' j='+j+' mx_height='+mx_height+' mx_width='+mx_width);
        //console.log('n');
        game_expand("n");
    }
    if(spliti[0]=="p" && spliti[1]==Math.abs(x_height))
    {
        //console.log('i='+i+' j='+j+' mx_height='+mx_height+' mx_width='+mx_width);
        //console.log('s');
        game_expand("s");
    }
    if((splitj[0]=="m" && splitj[1]==Math.abs(mx_width)) || (splitj[0]=="p" && (splitj[1]==1 ||
splitj[1]==0) && splitj[1]==mx_width))
    {
        //console.log('i='+i+' j='+j+' mx_height='+mx_height+' mx_width='+mx_width);
        //console.log('w');
        game_expand("w");
    }
    if(splitj[0]=="p" && splitj[1]==Math.abs(x_width))
    {
        //console.log('i='+i+' j='+j+' mx_height='+mx_height+' mx_width='+mx_width);
        //console.log('e');
        game_expand("e");
    }
    var ms=[];
    sosedi(ms,i,j);
    //console.log(print_r(ms));
}

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var i=0;
var r,g,b,color;
r=getRandomInt(0,255);
g=getRandomInt(0,255);
b=getRandomInt(0,255);
color="rgb("+r+", "+g+", "+b+)";
while(i<ms.length)
{
    redarrayappend(ms[i]);
    //console.log(ms[i]);
    //document.getElementById("cell_"+ms[i]).style.backgroundColor=color;
    i++;
}
// console.log("redarray="+redarray);
//console.log(print_r(redarray));
}
function life()
{
// console.log(comparered("p_4_p_3","p_3_p_3"));
// console.log(redarray);
var i=0;
var j;
var split;
var ms;
var lifesosedi;
var newlife=[];
var newdead=[];
while(i<redarray.length)
{
    split=explode("_",redarray[i]);
    ms=[];
    sosedi(ms,split[0]+"_"+split[1],split[2]+"_"+split[3]);
    //console.log("ms="+print_r(ms));
    j=0;
    lifesosedi=0;
    while(j<ms.length)
    {
        //console.log("ms[j]="+ms[j]);
        if(document.getElementById("cell_"+ms[j])!=null)
        {
            if(document.getElementById("cell_"+ms[j]).style.backgroundColor=="red")
            {
                lifesosedi++;
            }
        }
        j++;
    }
}
}

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if(document.getElementById("cell_"+redarray[i]).style.backgroundColor=="blue")
    {
        if(lifesosedi==3)
        {
            newlife[newlife.length]=redarray[i];
        }
    }
else
    {
        if(lifesosedi<2 || lifesosedi>3)
        {
            newdead[newdead.length]=redarray[i];
        }
    }
    i++;
}
//console.log("newlife="+print_r(newlife));
i=0;
while(i<newlife.length)
{
    split=explode("_",newlife[i]);
    makelife(split[0]+"_"+split[1],split[2]+"_"+split[3]);

    //document.getElementById("cell_"+newlife[i]).style.backgroundColor="red";
    //ms=[];
    //split=explode("_",newlife[i]);
    //sosedi(ms,split[0]+"_"+split[1],split[2]+"_"+split[3]);
    //j=0;
    //while(j<ms.length)
    //{
    //    redarrayappend(ms[j]);
    //    j++;
    //}

    i++;
}
//console.log("newdead="+print_r(newdead));
i=0;
while(i<newdead.length)
{
    document.getElementById("cell_"+newdead[i]).style.backgroundColor="blue";

    ms=[];
    split=explode("_",newdead[i]);
    sosedi(ms,split[0]+"_"+split[1],split[2]+"_"+split[3]);
    j=0;
}

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        lifesosedi=0;
        while(j<ms.length)
        {
            if(document.getElementById("cell_"+ms[j])!=null)
            {
                if(document.getElementById("cell_"+ms[j]).style.backgroundColor=="red")
                {
                    lifesosedi++;
                }
            }
            j++;
        }
        if(lifesosedi==0)
        {
            redarraydelete(newdead[i]);
        }

        i++;
    }
    //console.log(print_r(redarray));
}
function sosedi(ms,i,j)
{
    var spliti=explode("_",i);
    var splitj=explode("_",j);
    if(spliti[1]==0 && splitj[1]==0)
    {
        ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
        ms[ms.length]="p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]+1);
        ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]);
        ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
        ms[ms.length]="p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]);
        ms[ms.length]="p_"+(1*spliti[1])+"_p_"+(1*splitj[1]+1);
        ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]+1);
        ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
    }
    else if(spliti[0]=="m" && splitj[0]=="m" && spliti[1]==1 && splitj[1]==1)
    {
        ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
        ms[ms.length]="p_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]-1);
        ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]-1);
        ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
        ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]);
        ms[ms.length]="m_"+(1*spliti[1])+"_p_"+(1*splitj[1]-1);
        ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
        ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
    }
}

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else if(spliti[1]==0 && splitj[0]=="m" && splitj[1]==1)
{
    ms[ms.length]="m_1_m_2";
    ms[ms.length]="m_1_m_1";
    ms[ms.length]="m_1_p_0";
    ms[ms.length]="p_0_p_0";
    ms[ms.length]="p_1_p_0";
    ms[ms.length]="p_1_m_1";
    ms[ms.length]="p_1_m_2";
    ms[ms.length]="p_0_m_2";
}
else if(spliti[0]=="m" && spliti[1]==1 && splitj[1]==0)
{
    ms[ms.length]="m_2_m_1";
    ms[ms.length]="m_1_m_1";
    ms[ms.length]="p_0_m_1";
    ms[ms.length]="p_0_p_0";
    ms[ms.length]="p_0_p_1";
    ms[ms.length]="m_1_p_1";
    ms[ms.length]="m_2_p_0";
    ms[ms.length]="m_2_p_1";
}
else if(spliti[0]=="m" && spliti[1]==1 && splitj[0]=="p" && splitj[1]>0)
{
    ms[ms.length]="m_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]+1);
    ms[ms.length]="p_" + (1*spliti[1]-1) + "_p_" + (1*splitj[1]-1);
    ms[ms.length]="m_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]-1);
    ms[ms.length]="p_" + (1*spliti[1]-1) + "_p_" + (1*splitj[1]+1);
    ms[ms.length]="p_" + (1*spliti[1]-1) + "_p_" + (1*splitj[1]);
    ms[ms.length]="m_" + (1*spliti[1]) + "_p_" + (1*splitj[1]-1);
    ms[ms.length]="m_" + (1*spliti[1]) + "_p_" + (1*splitj[1]+1);
    ms[ms.length]="m_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]);
}
else if(spliti[0]=="p" && spliti[1]==0 && splitj[0]=="p" && splitj[1]>0)
{
    ms[ms.length]="p_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]+1);
    ms[ms.length]="m_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]-1);
    ms[ms.length]="p_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]-1);
    ms[ms.length]="m_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]+1);
    ms[ms.length]="m_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]);
    ms[ms.length]="p_" + (1*spliti[1]) + "_p_" + (1*splitj[1]-1);
    ms[ms.length]="p_" + (1*spliti[1]) + "_p_" + (1*splitj[1]+1);
    ms[ms.length]="p_" + (1*spliti[1]+1) + "_p_" + (1*splitj[1]);
}
else if(spliti[0]=="p" && spliti[1]==1 && splitj[0]=="m" && spliti[1]>0)
{
    ms[ms.length]="p_" + (1*spliti[1]+1) + "_m_" + (1*splitj[1]+1);
    ms[ms.length]="p_" + (1*spliti[1]-1) + "_p_" + (1*splitj[1]-1);
}

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ms[ms.length]="p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]);
ms[ms.length]="p_"+(1*spliti[1])+"_p_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
}
else if(spliti[0]=="p" && splitj[1]==0 && splitj[0]=="p" && spliti[1]>0)
{
ms[ms.length]="p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]);
ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1])+"_p_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]);
}
else if(spliti[0]=="m" && spliti[1]==1 && splitj[0]=="m" && splitj[1]>1)
{
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]);
ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
}
else if(spliti[1]==0 && splitj[0]=="m" && splitj[1]>1)
{
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
}
else if(spliti[0]=="m" && spliti[1]>1 && splitj[0]=="m" && splitj[1]==1)
{
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]);
ms[ms.length]="m_"+(1*spliti[1])+"_p_"+(1*splitj[1]-1);
}

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ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
}
else if(splitj[1]==0 && spliti[0]=="m" && spliti[1]>1)
{
ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]);
ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1])+"_p_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]);
}
else if(spliti[0]=="m" && splitj[0]=="m")
{
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]);
ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
}
else if(spliti[0]=="p" && splitj[0]=="m")
{
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]-1)+"_m_"+(1*splitj[1]);
ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]-1);
ms[ms.length]="p_"+(1*spliti[1])+"_m_"+(1*splitj[1]+1);
ms[ms.length]="p_"+(1*spliti[1]+1)+"_m_"+(1*splitj[1]);
}
else if(spliti[0]=="m" && splitj[0]=="p")
{
ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]-1)+"_p_"+(1*splitj[1]);
ms[ms.length]="m_"+(1*spliti[1])+"_p_"+(1*splitj[1]-1);
ms[ms.length]="m_"+(1*spliti[1])+"_p_"+(1*splitj[1]+1);
ms[ms.length]="m_"+(1*spliti[1]+1)+"_p_"+(1*splitj[1]);
}
else if(spliti[0]=="p" && splitj[0]=="p")

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    {
        ms[ms.length]="p_" +(1*spliti[1]+1)+"_p_" +(1*splitj[1]+1);
        ms[ms.length]="p_" +(1*spliti[1]-1)+"_p_" +(1*splitj[1]-1);
        ms[ms.length]="p_" +(1*spliti[1]+1)+"_p_" +(1*splitj[1]-1);
        ms[ms.length]="p_" +(1*spliti[1]-1)+"_p_" +(1*splitj[1]+1);
        ms[ms.length]="p_" +(1*spliti[1]-1)+"_p_" +(1*splitj[1]);
        ms[ms.length]="p_" +(1*spliti[1])+"_p_" +(1*splitj[1]-1);
        ms[ms.length]="p_" +(1*spliti[1])+"_p_" +(1*splitj[1]+1);
        ms[ms.length]="p_" +(1*spliti[1]+1)+"_p_" +(1*splitj[1]);
    }
}
function redarrayappend(param)
{
    //console.log("param="+param);
    var split=explode("_",param);
    // console.log("test2="+split);
    var start=0;
    var finish=redarray.length-1;
    var flag=-1;
    var i;
    var stop;
    while(finish-start>1)
    {
        if(comparered(redarray[Math.floor((start+finish)/2)],param)==1)
        {
            finish=Math.floor((start+finish)/2);
        }
        else if(comparered(redarray[Math.floor((start+finish)/2)],param)==-1)
        {
            start=Math.floor((start+finish)/2);
        }
        else if(comparered(redarray[Math.floor((start+finish)/2)],param)==0)
        {
            flag=1;
            break;
        }
    }
    if(flag==-1)
    {
        // console.log("redarraystart="+redarray[start]);
        // console.log("redarrayfinish="+redarray[finish]);
        // console.log("param="+param);
        // console.log("start="+start);
        // console.log("finish="+finish);
        if(redarray.length>0 && start>=0 && comparered(redarray[start],param)==0)
        {
            flag=1;
        }
    }
}

```

```

        else if(redarray.length>0 && finish>=0 &&
comparered(redarray[finish],param)==0)
        {
            flag=1;
        }
//        console.log("flag="+flag);
    }
    if(param=='p_4_p_2')
    {
        //console.log("flag="+flag+' start='+start+' finish='+finish+'
redarray.length='+redarray.length);
    }
//    console.log("flag="+flag);
//    console.log("start="+start);
//    console.log("finish="+finish);
    if(flag==1)
    {
        redarray[redarray.length]=param;
        i=redarray.length-1;
        while(i-1>=0 && comparered(redarray[i-1],redarray[i])==1)
        {
            param=redarray[i];
            redarray[i]=redarray[i-1];
            redarray[i-1]=param;
            i--;
        }
    }
}
function redarraydelete(param)
{
    var split=explode("_",param);
//    console.log("test2="+split);
    var start=0;
    var finish=redarray.length-1;
    var flag=-1;
    var i;
    var stop;
    while(finish-start>1)
    {
        if(comparered(redarray[Math.floor((start+finish)/2)],param)==1)
        {
            finish=Math.floor((start+finish)/2);
        }
        else if(comparered(redarray[Math.floor((start+finish)/2)],param)==-1)
        {
            start=Math.floor((start+finish)/2);
        }
        else if(comparered(redarray[Math.floor((start+finish)/2)],param)==0)

```

```

        {
            flag=Math.floor((start+finish)/2);
            break;
        }
    }
// console.log("flag="+flag);
// console.log("start="+start);
// console.log("finish="+finish);
if(flag== -1)
{
// console.log("redarraystart="+redarray[start]);
// console.log("redarrayfinish="+redarray[finish]);
// console.log("param="+param);
if(redarray.length>0 && start>=0 && comparered(redarray[start],param)==0)
{
    flag=start;
}
else if(redarray.length>0 && finish>=0 &&
comparered(redarray[finish],param)==0)
{
    flag=finish;
}
// console.log("flag="+flag);
}
if(flag>=0)
{
    i=flag+1;
    while(i<redarray.length)
    {
        redarray[i-1]=redarray[i];
        i++;
    }
    redarray.pop();
}
}
function comparered(param1,param2)
{
    var split1=explode("_",param1);
    var split2=explode("_",param2);
// console.log("split1="+split1);
// console.log("split2="+split2);
    var i=0;
    var a,b;
    while(i<=3)
    {
        if(i%2==0)
        {
            if(split1[i]=="m")

```

```

        {
            a=0;
        }
        else
        {
            a=1;
        }
        if(split2[i]=="m")
        {
            b=0;
        }
        else
        {
            b=1;
        }
    }
    else
    {
        a=parseInt(split1[i]);
        b=parseInt(split2[i]);
    }
    if(a>b)
    {
        return 1;
    }
    else if(b>a)
    {
        return -1;
    }
    else if(i==3)
    {
        return 0;
    }
    i++;
}
}
function game_expand(direction)
{
    if(direction=="s")
    {
        var pointer=document.getElementById("mega");
        var megax,megay;
        megax=pointer.style.width;
        megay=pointer.style.height;
        megax=parseInt(megax);
        megay=parseInt(megay);
        var stroka="";
        var max_x;
    }
}

```

```

if(x_height>x_width)
{
    max_x=x_height;
}
else
{
    max_x=x_width;
}
var j,r,g,b,color;
var i=x_height+1;
var znak2;
    stroka+="
```



```

megay=pointer.style.height;
megax=parseInt(megax);
megay=parseInt(megay);
var stroka="";
var max_x;
if(x_height>x_width)
{
    max_x=x_height;
}
else
{
    max_x=x_width;
}
var znak;
var znak2;
if(mx_height-1<0)
{
    znak="m";
}
else
{
    znak="p";
}
var j,r,g,b,color;
var i=mx_height-1;
    stroka+="<div style='display:flex;'
id='row_"+znak+"_"+"(mx_height-1)+">";
    j=mx_width;
    while(j<=x_width)
    {
        if(j<0)
        {
            znak2="m";
        }
        else
        {
            znak2="p";
        }
        r=0;
        g=0;
        b=255;
        //color="rgb("+r+","+g+","+b+)";
        color='blue';
        stroka+="<div
onclick='makelife(\""+znak+"_"+Math.abs(i)+"\", \""+znak2+"_"+Math.abs(j)+"\")'
id='cell_"+znak+"_"+Math.abs(i)+"_"+znak2+"_"+Math.abs(j)+"'
style='width:"+cell_size+"px;height:"+cell_size+"px;background-color:"+color+";display:fle

```

```

x;border: 1px solid red;font-size:"+(megax/(max_x*2))+ "px;justify-content:
center;align-items:center;">";
        stroka+="/div>";
        j++;
    }
    stroka+="/div>";
    pointer.innerHTML=stroka+pointer.innerHTML;
    mx_height--;
    //pointer.style.height=parseInt(pointer.style.height)+(cell_size+3)*1;
    resize_f('n');
}
if(direction=="w")
{
    var pointer=document.getElementById("mega");
    var megax,megay;
    megax=pointer.style.width;
    megay=pointer.style.height;
    megax=parseInt(megax);
    megay=parseInt(megay);
    var stroka="";
    var j,r,g,b,color;
    var i=mx_height;
    var max_x;
    if(x_height>x_width)
    {
        max_x=x_height;
    }
    else
    {
        max_x=x_width;
    }
    var pointer_row;
    var znak;
    var znak2;
    if(mx_width-1<0)
    {
        znak2="m";
    }
    else
    {
        znak2="p";
    }
    while(i<=x_height)
    {
        if(i<0)
        {
            znak="m";
        }
    }
}

```

```

else
{
    znak="p";
}
pointer_row=document.getElementById("row_"+znak+"_"+i);
stroka="";
r=0;
g=0;
b=255;
//color="rgb("+r+","+g+","+b+")";
color='blue';
stroka+="
```

```

    {
        if(i<0)
        {
            znak="m";
        }
        else
        {
            znak="p";
        }
        pointer_row=document.getElementById("row_"+znak+"_"+i);
        stroka="";
        r=0;
        g=0;
        b=255;
        //color="rgb("+r+","+g+","+b+")";
        color='blue';
        stroka+="
```