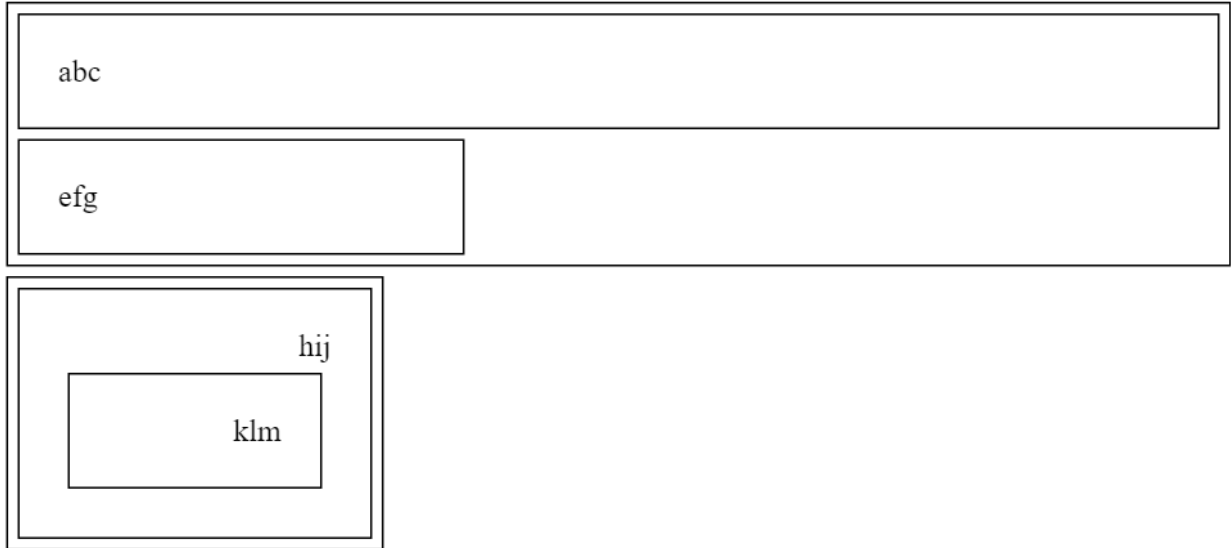


# Midterm Key 16wi

There are several different acceptable solutions to the Javascript questions. Only one variation for each is shown in this document.

1. a)



b)

`- _ -`

`*('O')*` `=/=(`

`^.,^`

`U.,U`

2.

```
var timer = null;
```

```
window.onload = function() {  
    document.getElementById("start").onclick = start;  
    document.getElementById("stop").onclick = stop;  
    document.getElementById("mole").onclick = point;  
}
```

```
function start() {  
    timer = setInterval(move, 1000);  
}
```

```
function stop() {  
    clearInterval(timer);  
}
```

```
function move() {  
    var mole = document.getElementById("mole");  
    var fieldWidth =  
        parseInt(window.getComputedStyle(document.getElementById("field")).width);  
    var fieldHeight =  
        parseInt(window.getComputedStyle(document.getElementById("field")).height);  
    var moleWidth =  
        parseInt(window.getComputedStyle(document.getElementById("mole")).width);  
    var moleHeight =  
        parseInt(window.getComputedStyle(document.getElementById("mole")).height);  
    mole.style.top = Math.floor(Math.random() * (fieldHeight - moleHeight) + "px");  
    mole.style.left = Math.floor(Math.random() * (fieldWidth - moleWidth) + "px");  
}
```

```
function point(event) {  
    var mole = document.getElementById("mole");  
    console.log(document.getElementById("score").innerHTML);  
    document.getElementById("score").innerHTML =  
        (parseInt(document.getElementById("score").innerHTML) + 1) + " points";  
}
```

3.

```
window.onload = function() {
    document.getElementById("add").onclick = add;
    document.getElementById("list").onmouseover = color;
    document.getElementById("list").onmouseout = blank;
}

function add() {
    var item = document.createElement("li");
    item.innerHTML = document.querySelector("input").value;
    document.getElementById("list").appendChild(item);
}

function color() {
    changeColor("red");
}

function blank() {
    changeColor("black");
}

function changeColor(color) {
    var items = document.querySelectorAll("li");
    for(var i = 0; i < items.length; i++) {
        items[i].style.color = color;
    }
}
```