

Seção: Matrizes

Exercícios: testes de mesa com matrizes

Execute manualmente os testes de mesa a seguir, preenchendo o comportamento das variáveis (se alguma variável não for usada no teste de mesa, apenas a ignore).

<pre>n = 3; for (i=0; i<n; i++) { for (j=0; j<n; j++) { mat[i][j] = 1 + i + j; } }</pre>	<pre>m = 2; n = 4; x = 0; for (i=0; i<m; i++) { x = x + i; for (j=0; j<n; j++) { x = x + j; mat[i][j] = x; } }</pre>																																																
<div style="display: flex; justify-content: space-around; align-items: center;"><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div><div style="font-size: 0.8em;">\$m</div></div><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div><div style="font-size: 0.8em;">\$n</div></div><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div><div style="font-size: 0.8em;">\$i</div></div><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div><div style="font-size: 0.8em;">\$j</div></div><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div><div style="font-size: 0.8em;">\$x</div></div><div style="text-align: center;"><div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div><div style="font-size: 0.8em;">\$y</div></div></div> <div style="display: flex; align-items: center; margin-top: 10px;"><div style="margin-right: 5px;">0</div><div style="margin-right: 5px;">1</div><div style="margin-right: 5px;">2</div><div style="margin-right: 5px;">3</div><div style="margin-right: 5px;">4</div><div style="margin-right: 5px;">5</div></div> <table border="1" style="border-collapse: collapse; text-align: center;"><tr><td style="width: 20px;"></td><td style="width: 20px;">0</td><td style="width: 20px;">1</td><td style="width: 20px;">2</td><td style="width: 20px;">3</td><td style="width: 20px;">4</td><td style="width: 20px;">5</td></tr><tr><td style="width: 20px;">0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> <div style="text-align: center; margin-top: 5px;">\$mat</div>		0	1	2	3	4	5	0							1							2							3							4							5						
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\$v

<pre>m = 5; for (i=0; i<m; i++) { mat[3][i] = 10; } for (i=0; i<m; i++) { mat[i][4] = 10 * i; mat[i][i] = 50; }</pre>	<pre>n = 3; for (i=0; i<n; i++) { x = 0; for (j=0; j<n; j++) { mat[i][j] = i + j; x = x + mat[i][j]; } v[i] = x; }</pre>																																																
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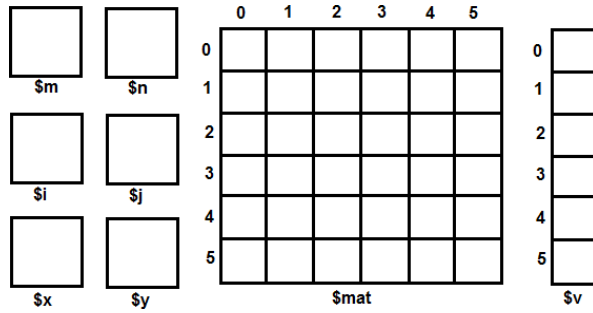
5

\$v

```

m = 5;
for (i=0; i<m; i++) {
    v[i] = 10 - i;
}
for (i=0; i<m; i++) {
    mat[i][i] = v[i] / 10;
}

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n = 4;
for (i=0; i<n; i++) {
    for (j=0; j<i; j++) {
        mat[i][j] = (i + 1) * 10;
    }
}

```

