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# Hw1

You can perform a number of binary operations on vectors.

```
function position=index2pos(index)
    n=length(index);
    position=zeros(n);
    for i=1:n
        position(index(i),i)=1;
    end
end
```

```
function []= test_code()

    a=[1 2 5 3];
    b=[2 7 1 1 5];
    disp(index2pos(a));
    disp(index2pos(b));

end
```

```
1      0      0      0
0      1      0      0
0      0      0      1
0      0      0      0
0      0      1      0

0      0      1      1      0
1      0      0      0      0
0      0      0      0      0
0      0      0      0      0
0      0      0      0      1
0      0      0      0      0
0      1      0      0      0
```

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