Small Group Tutorial 1: Insertion and Selection Sort

Insertion sort: Worst case analysis

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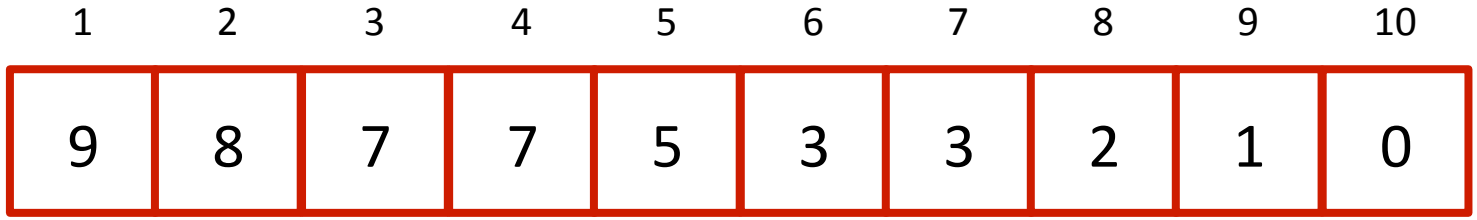

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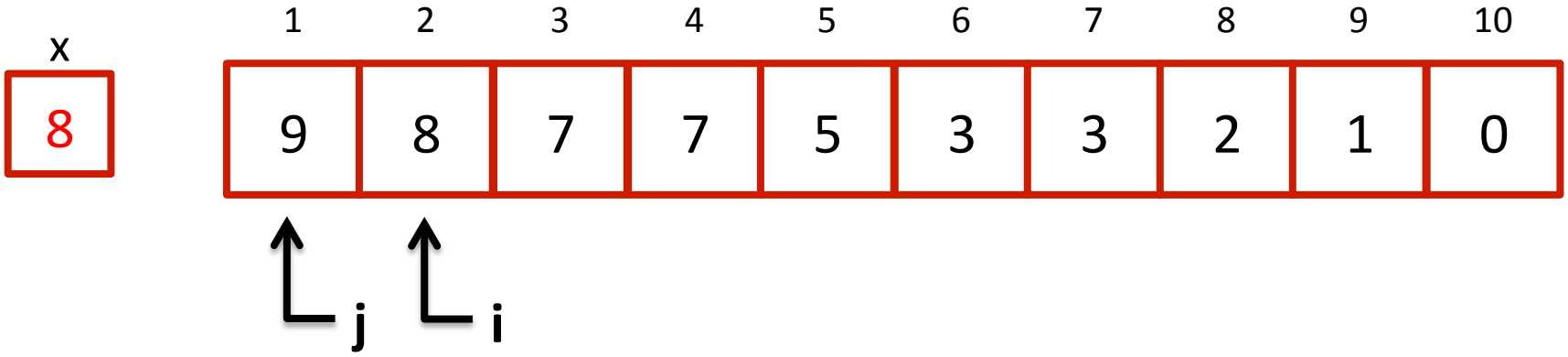

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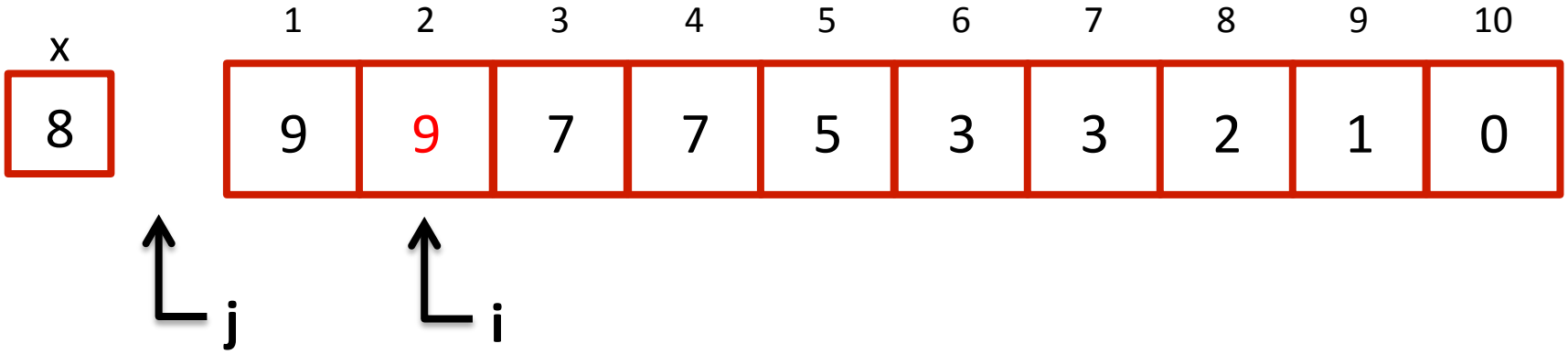

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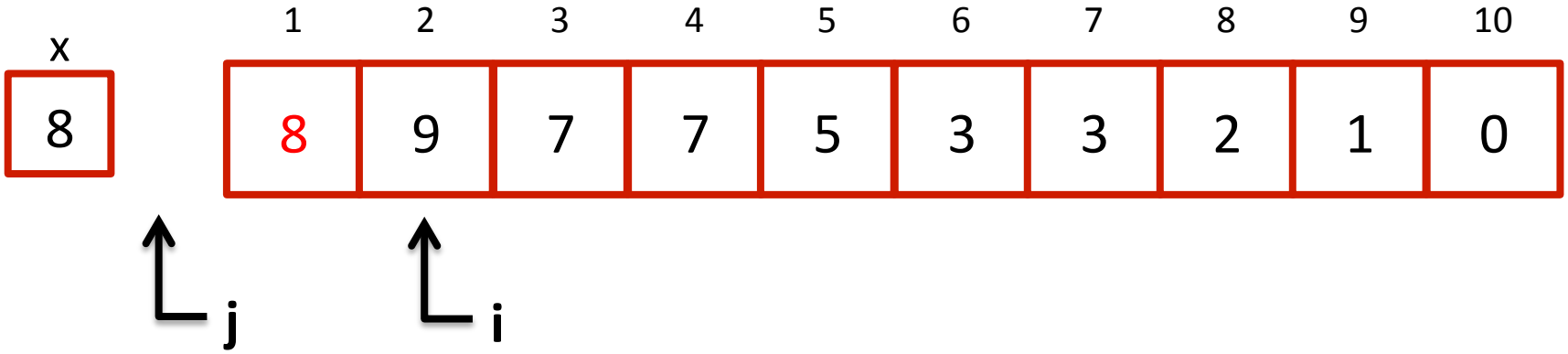

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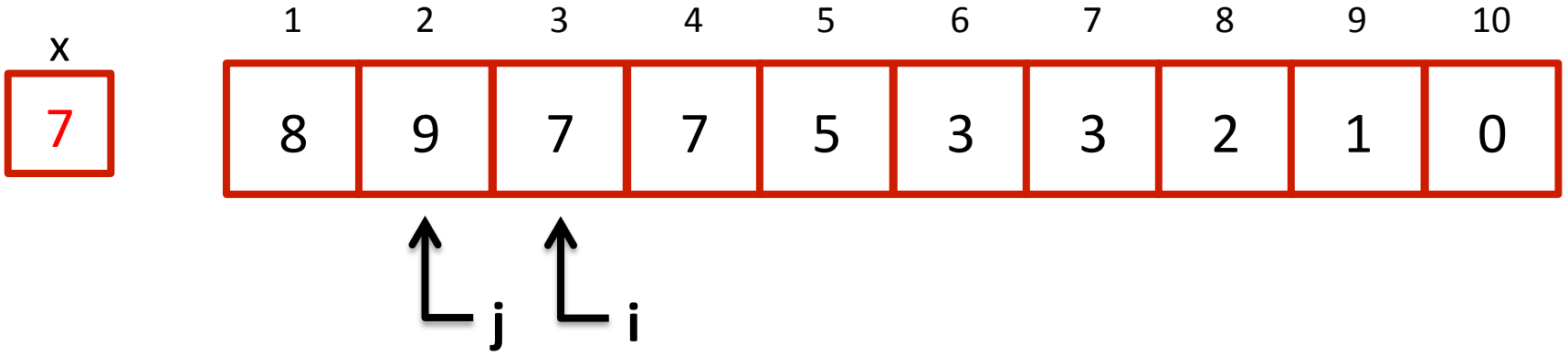

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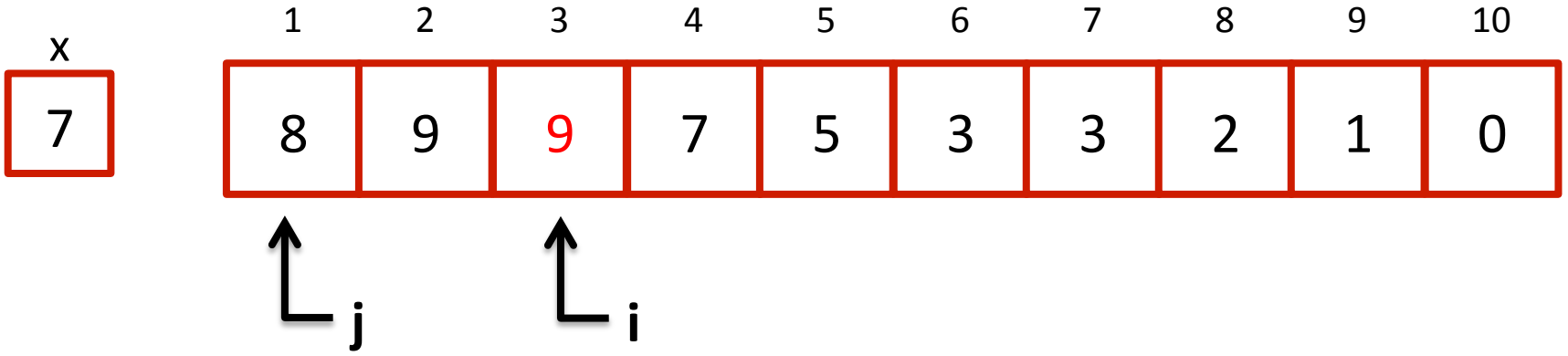

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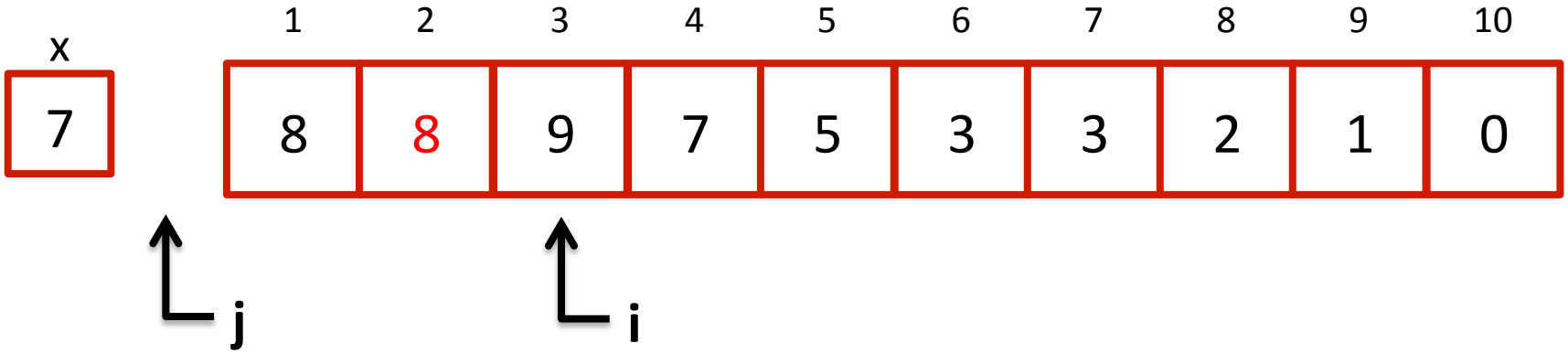

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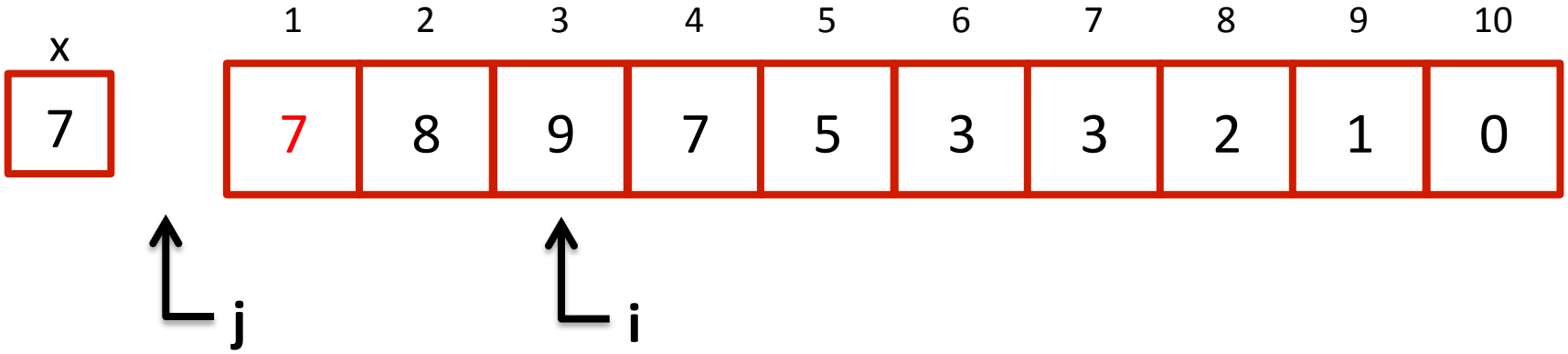

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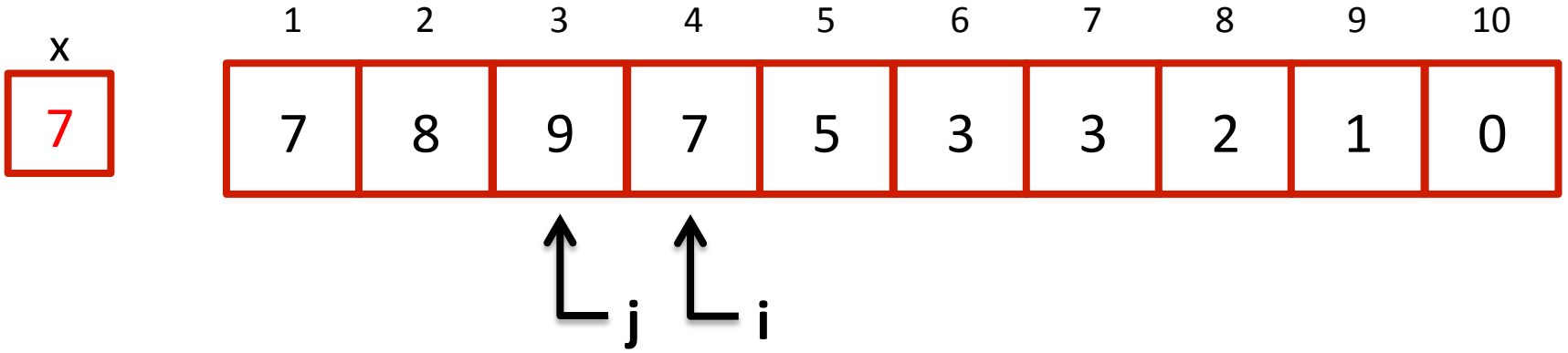

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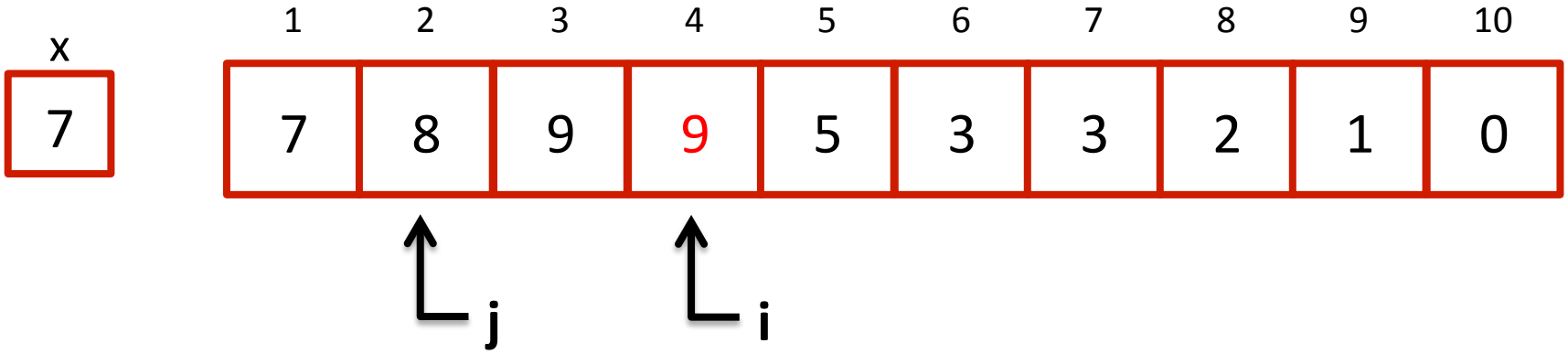

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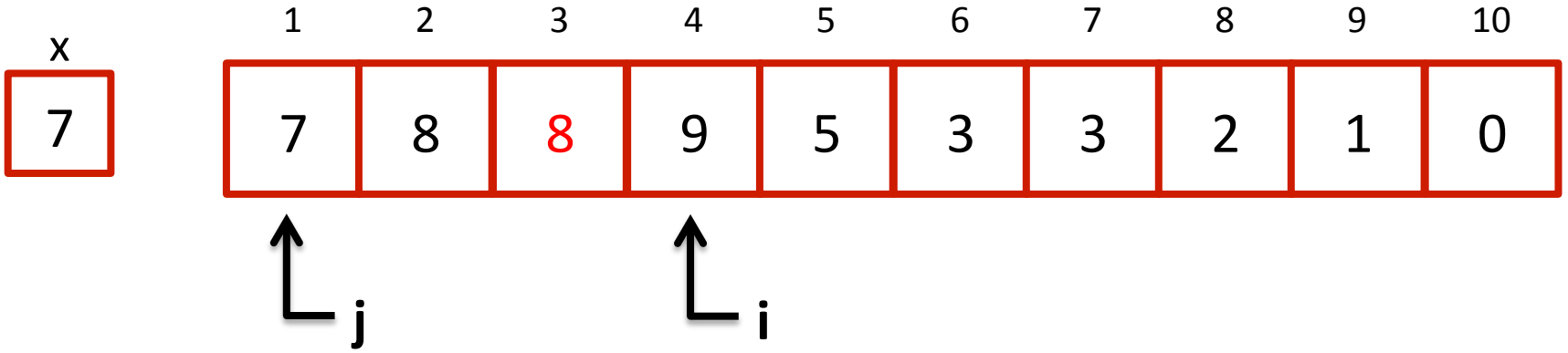

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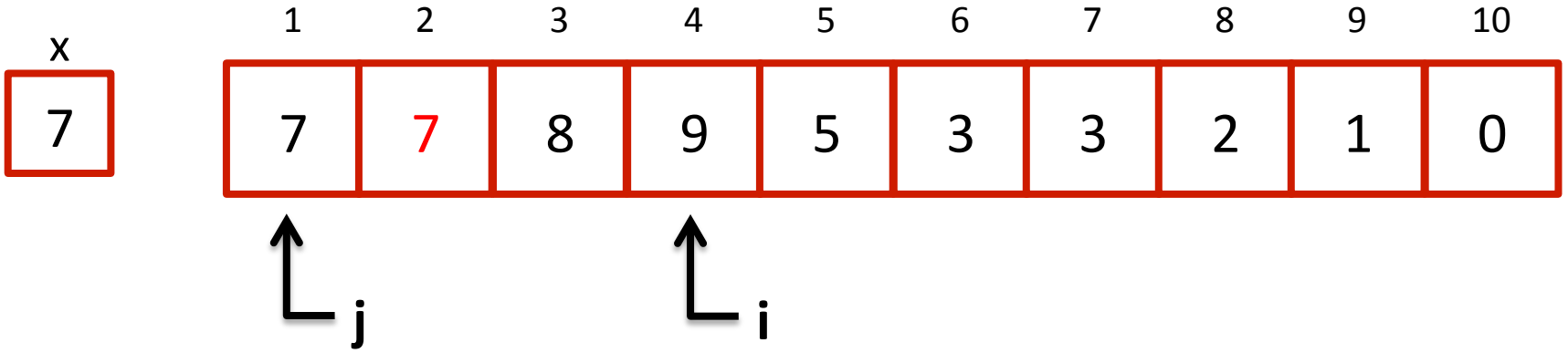

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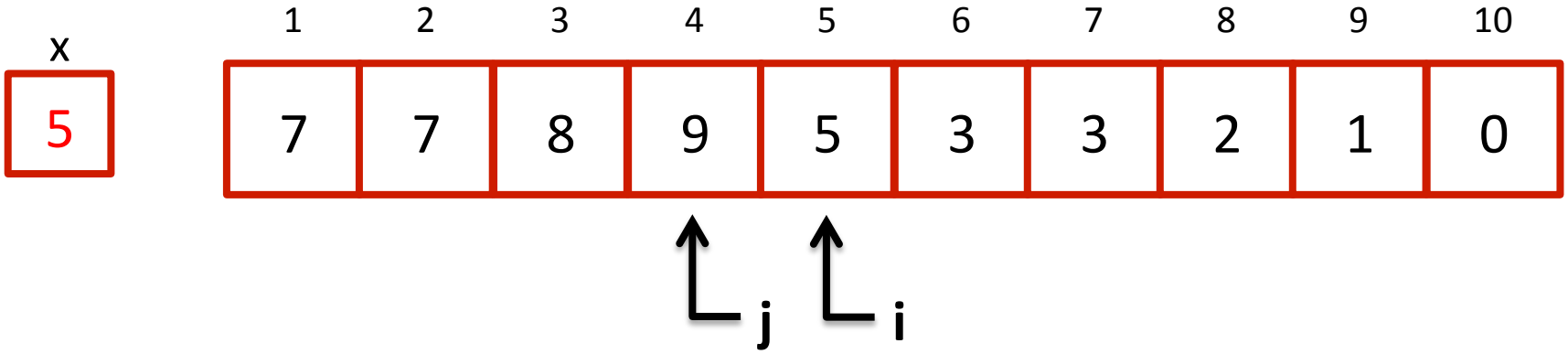

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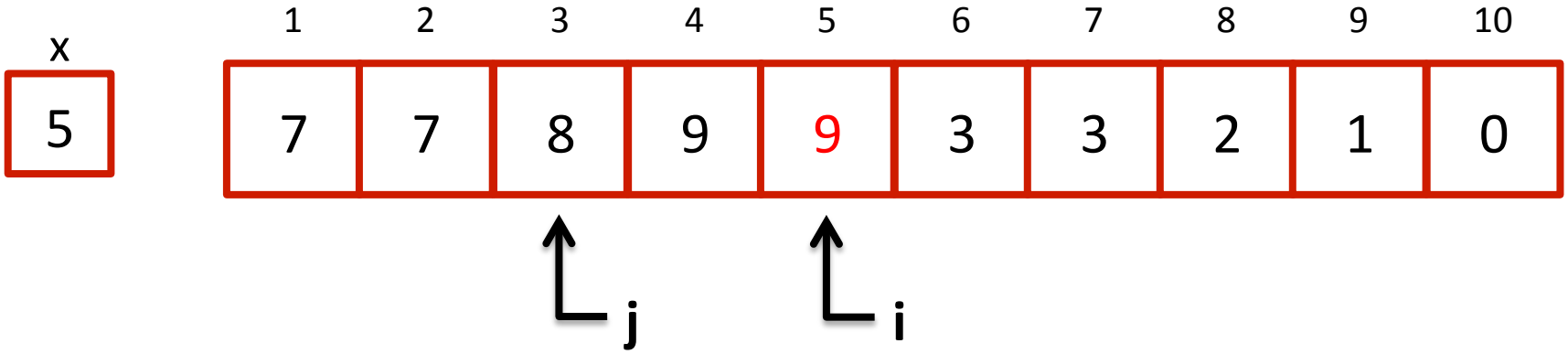

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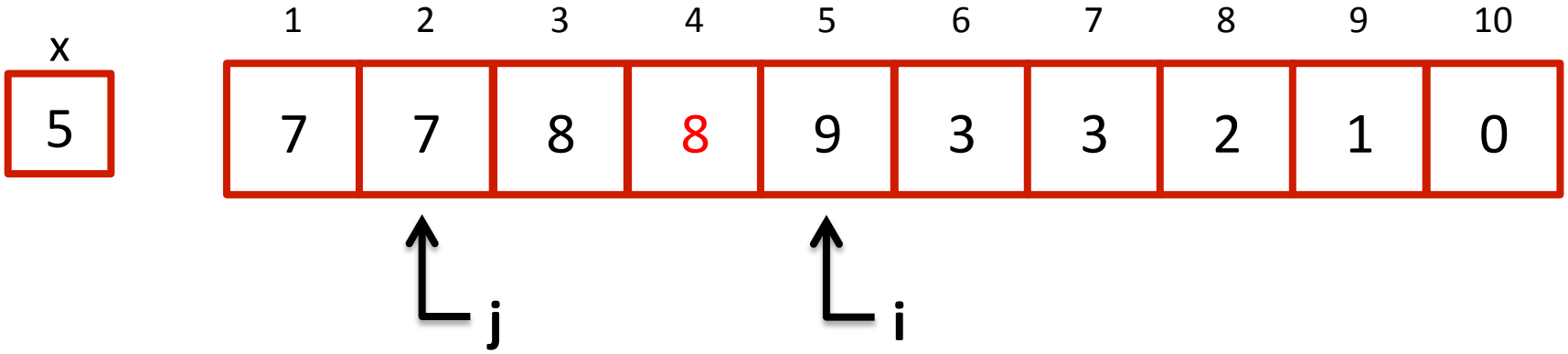

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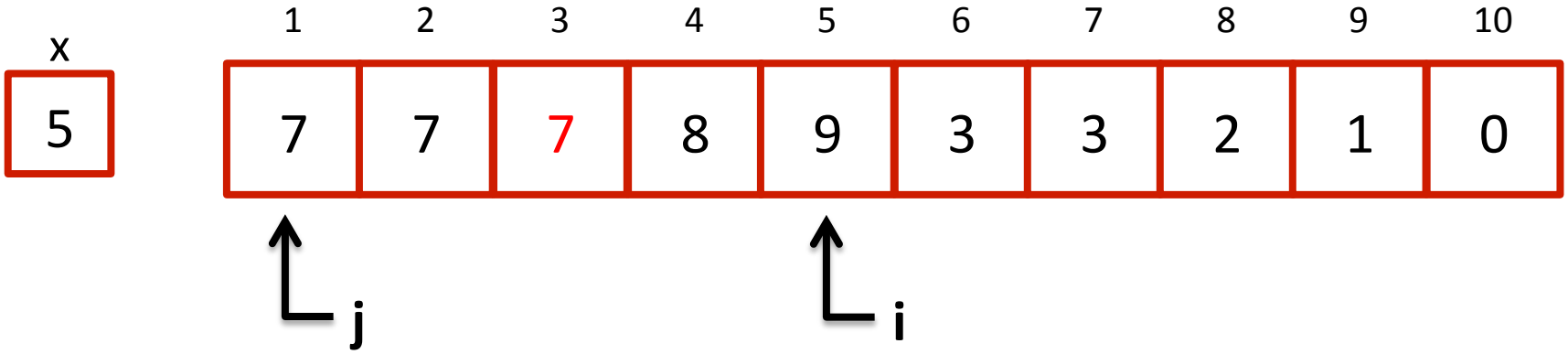

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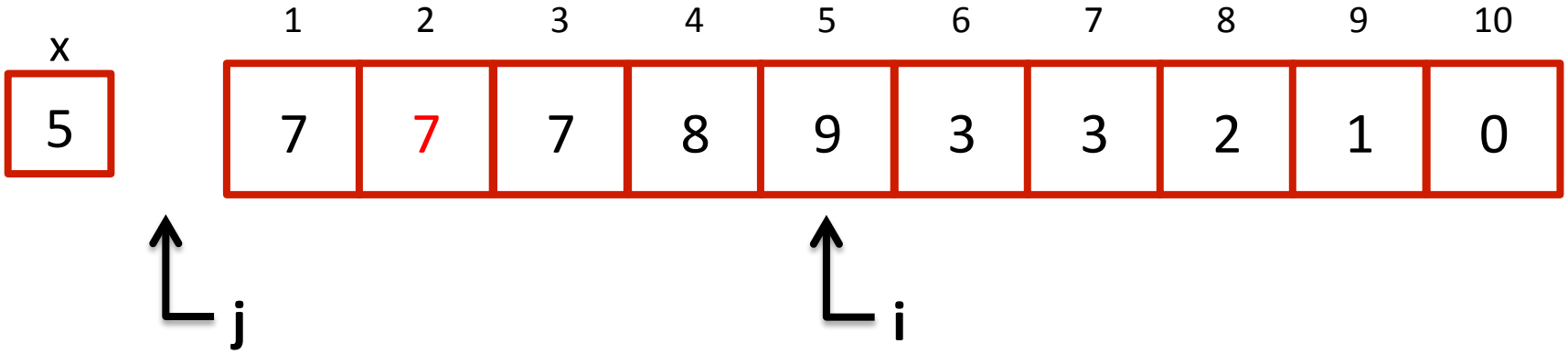

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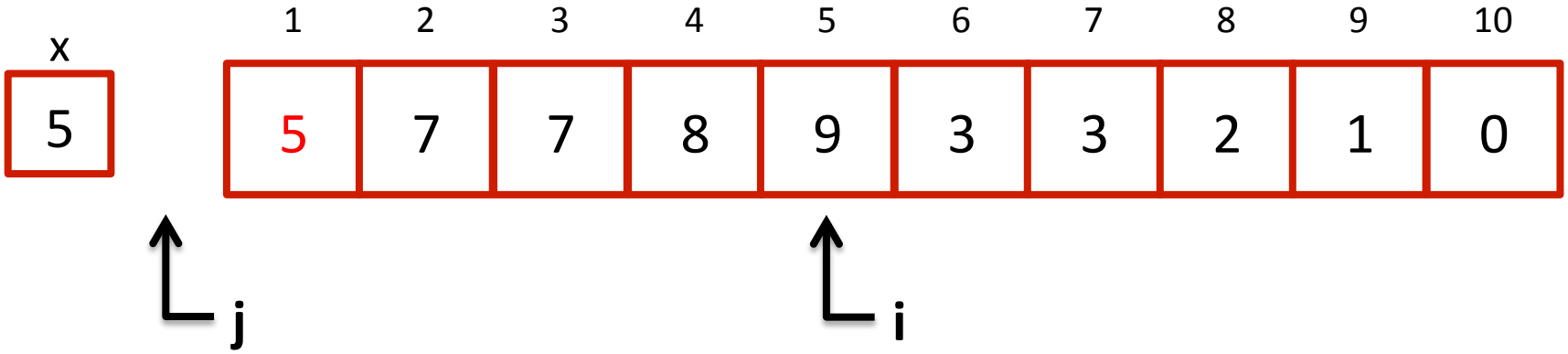

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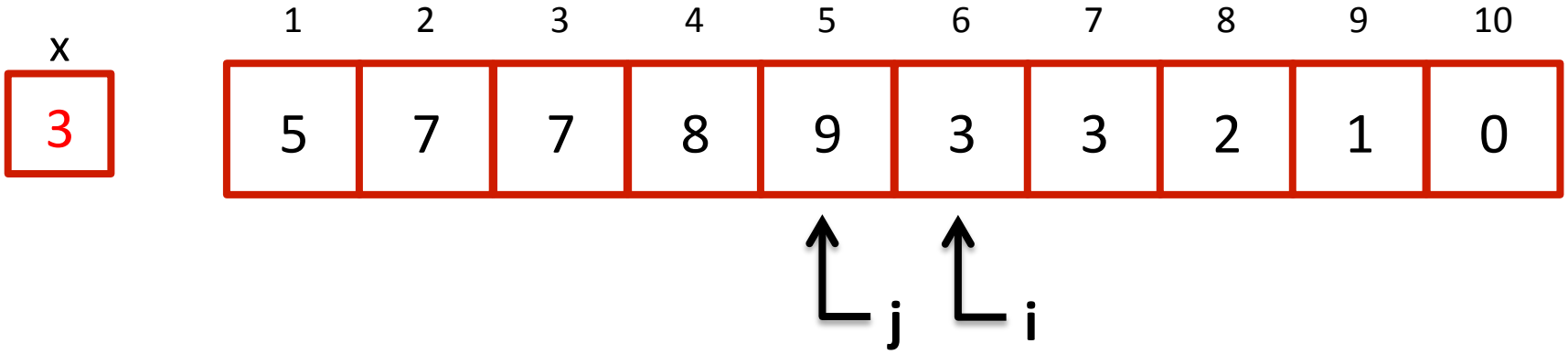

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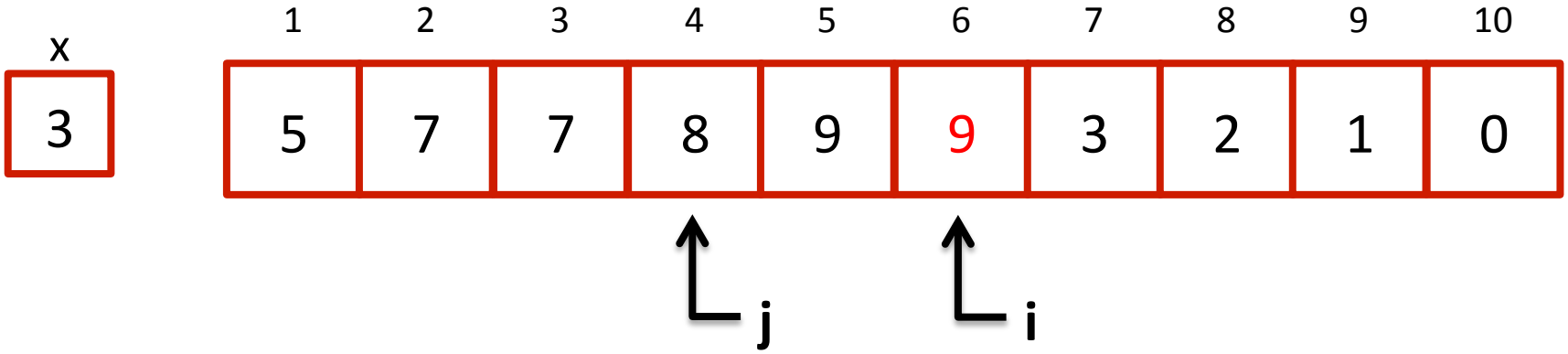

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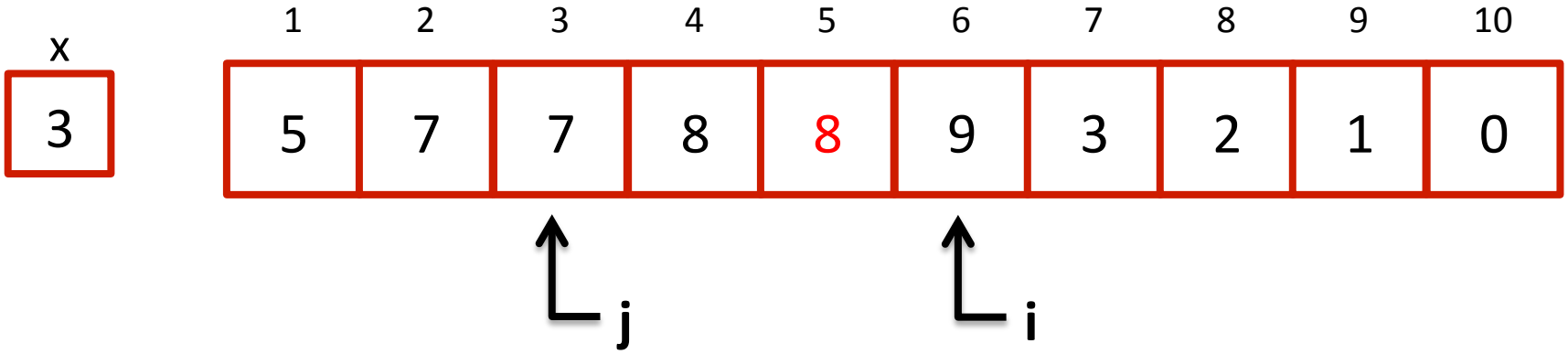

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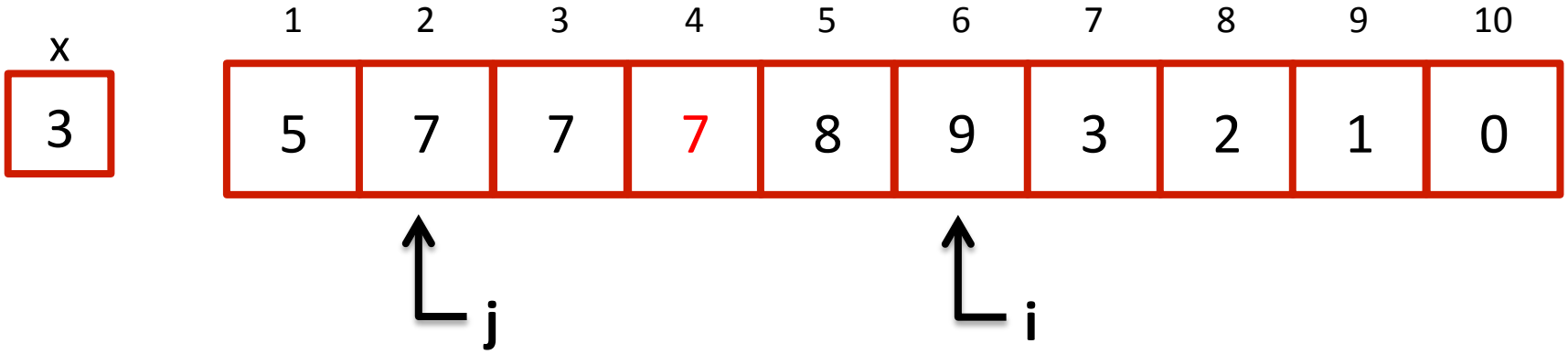

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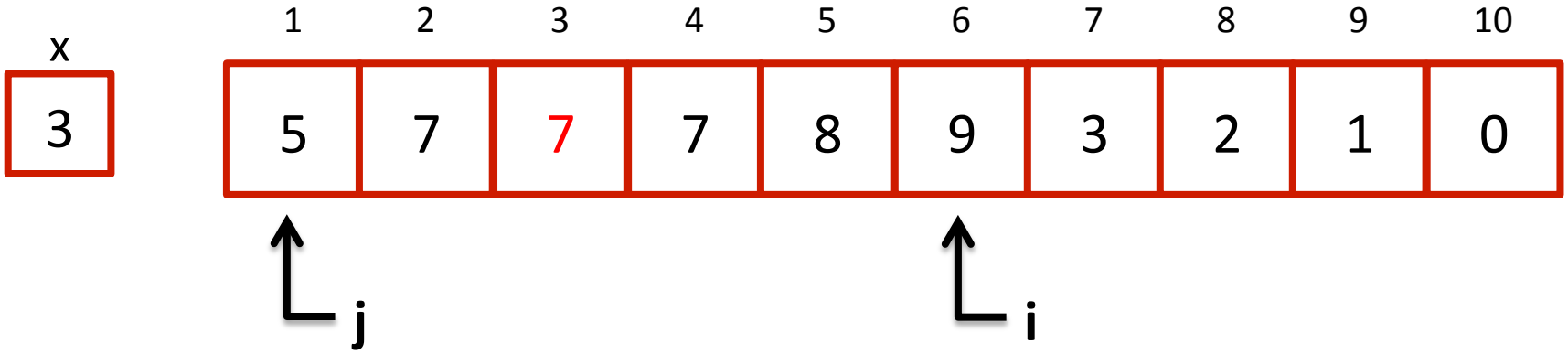

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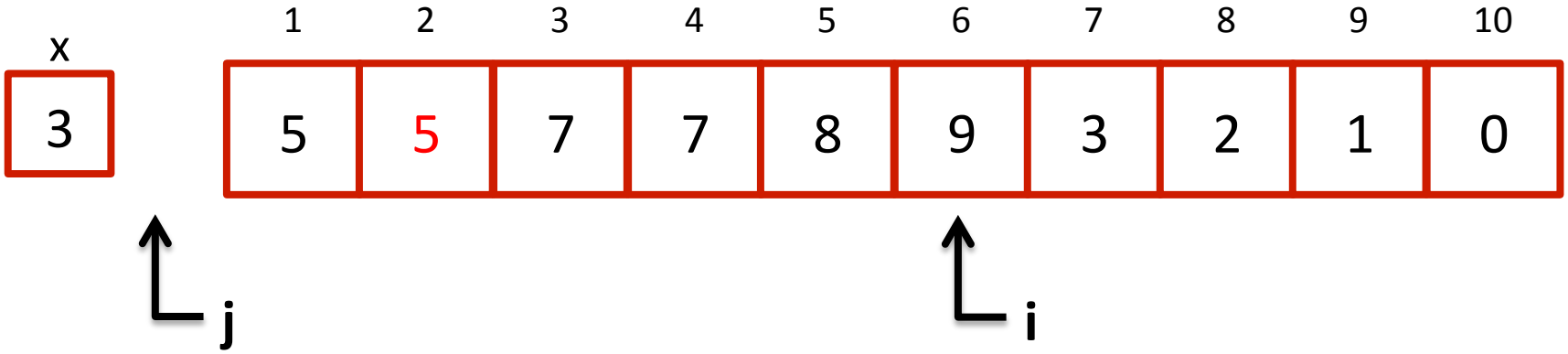

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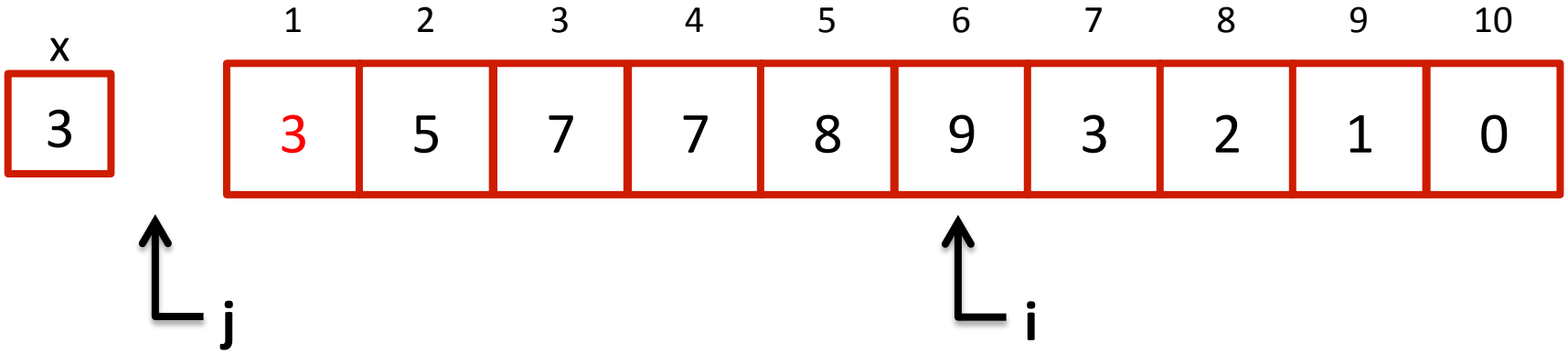

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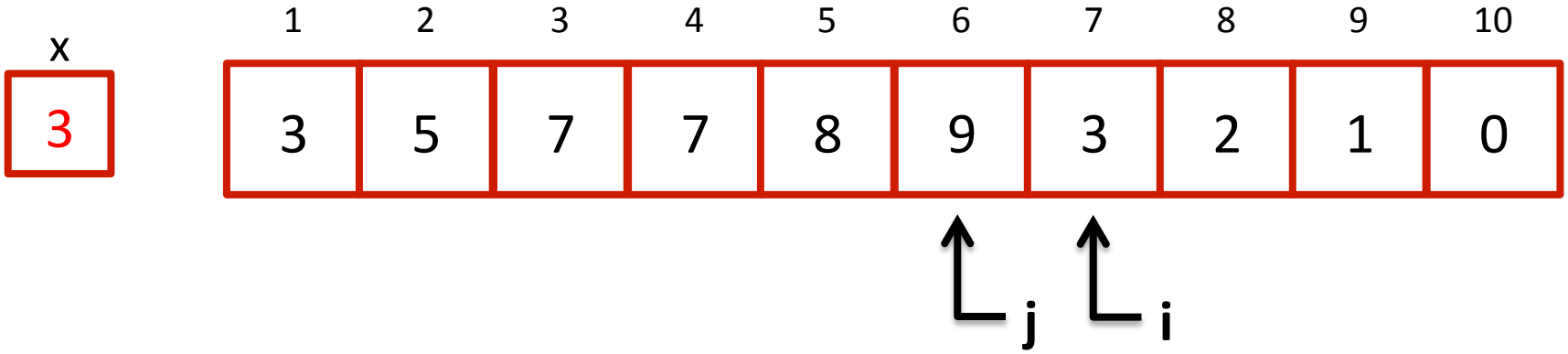

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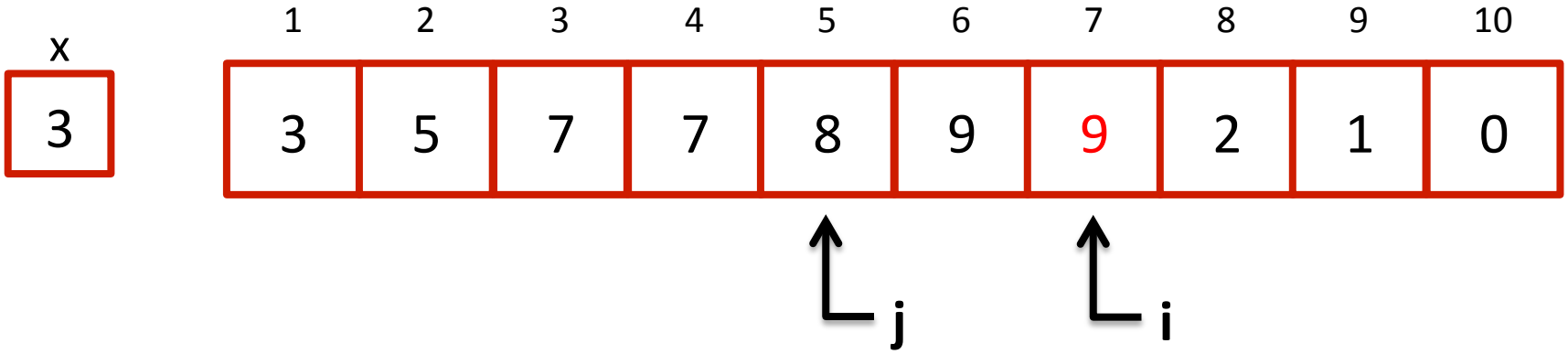

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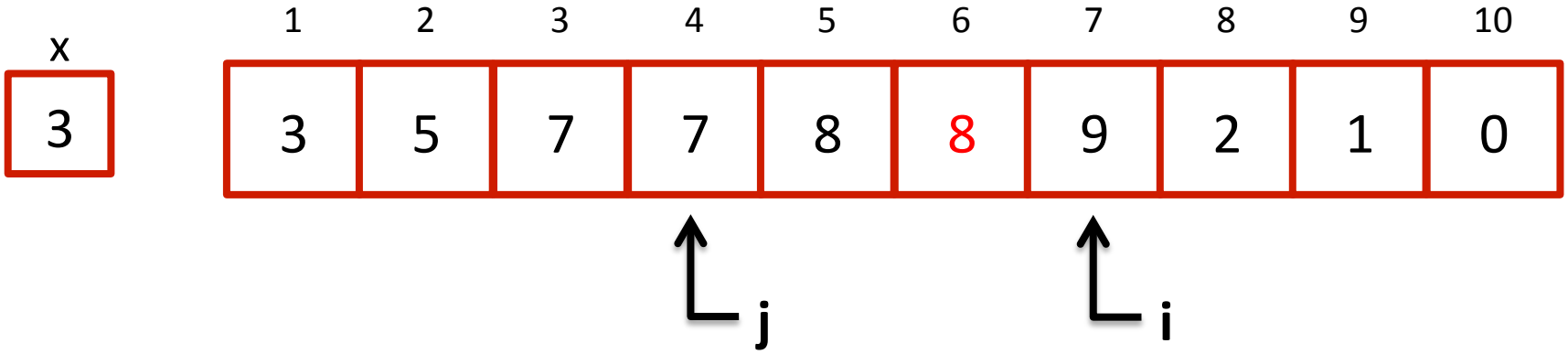

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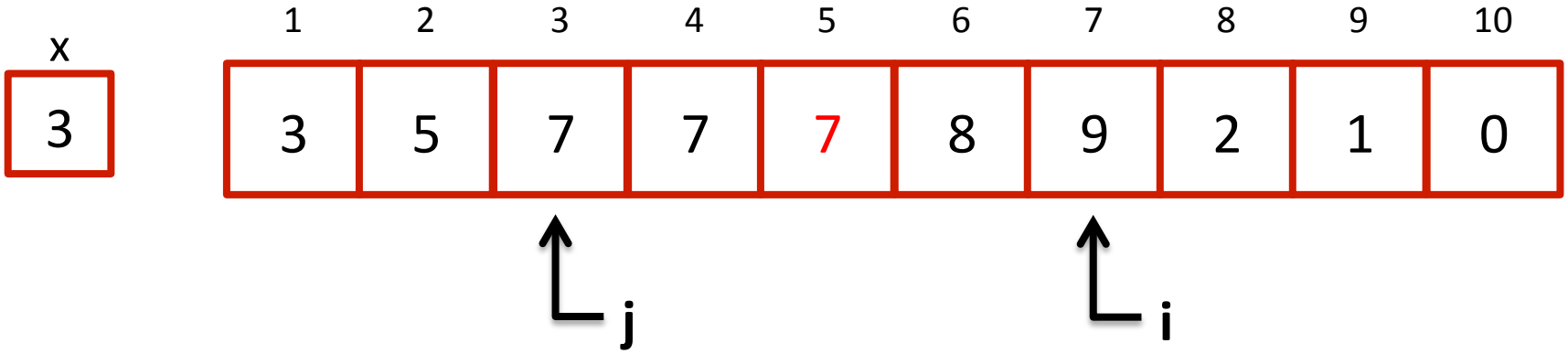

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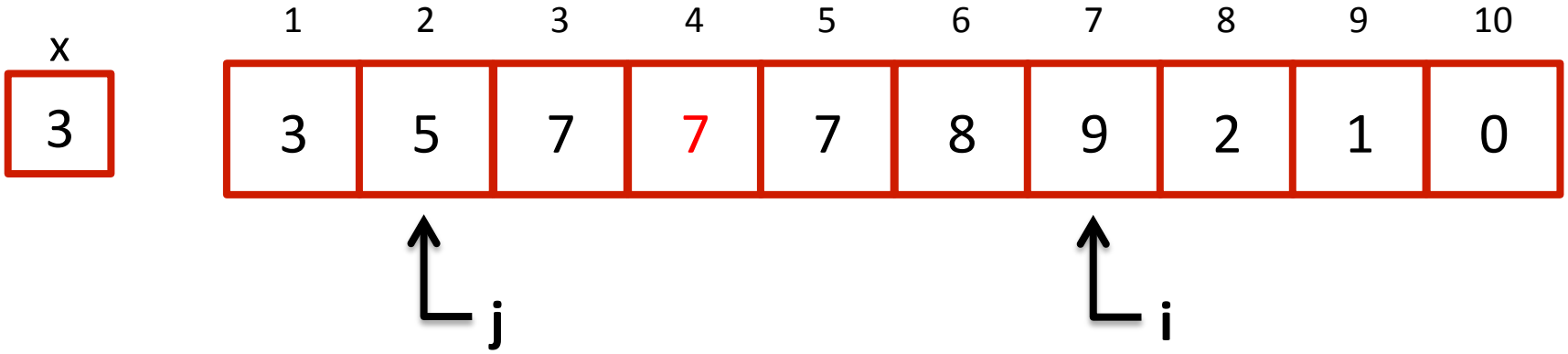

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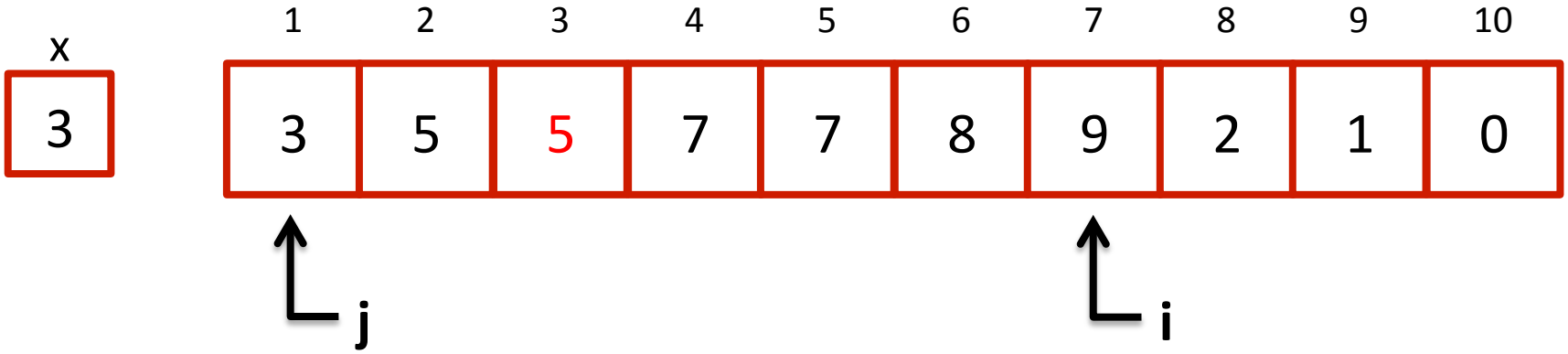

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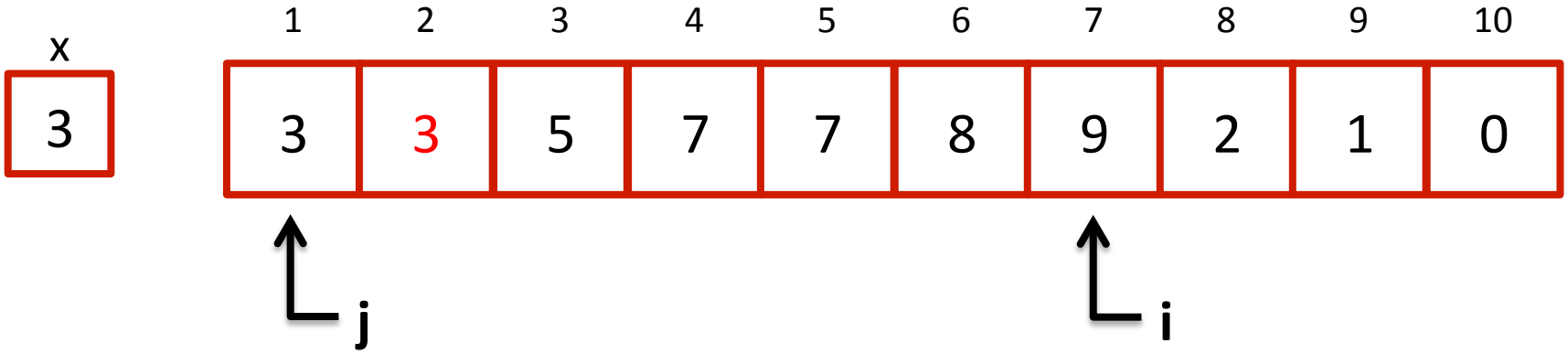

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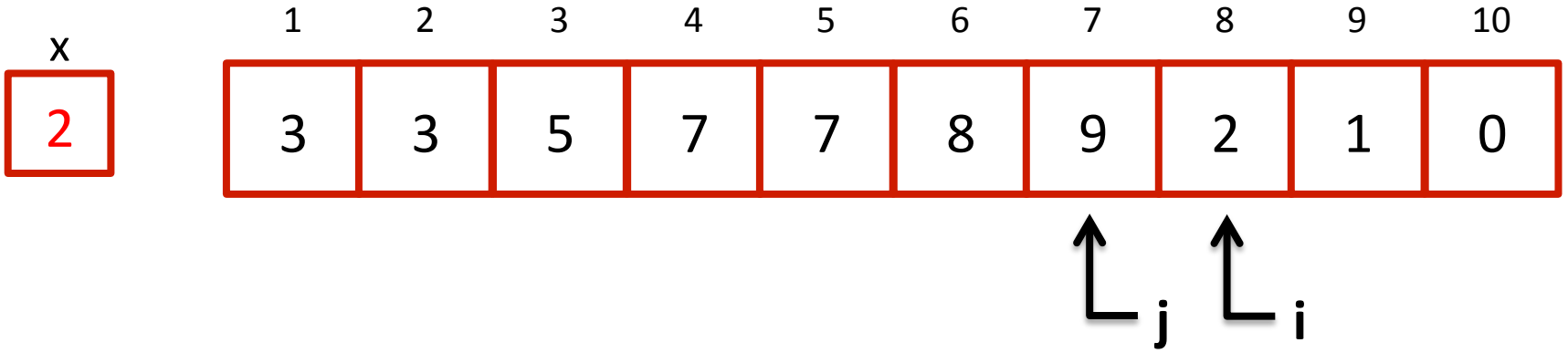

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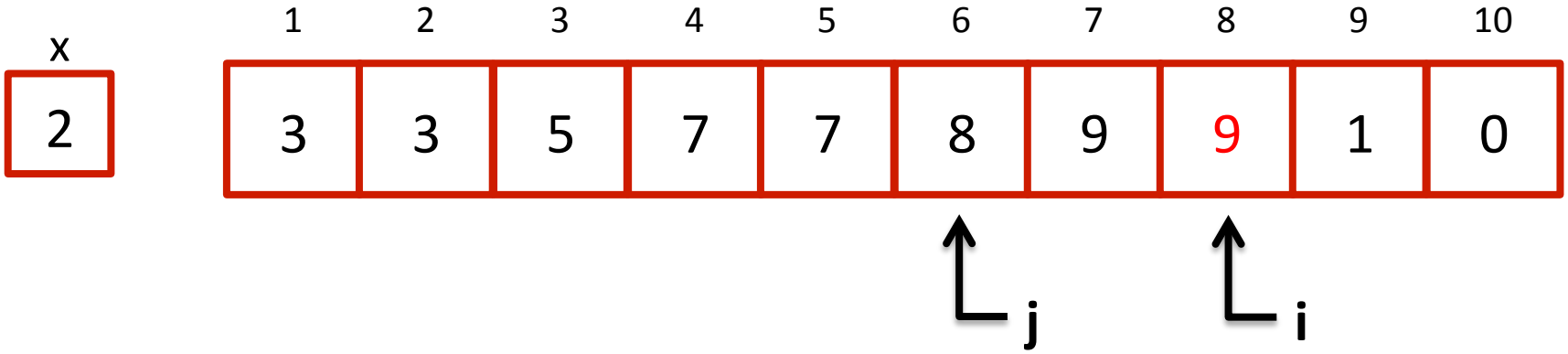

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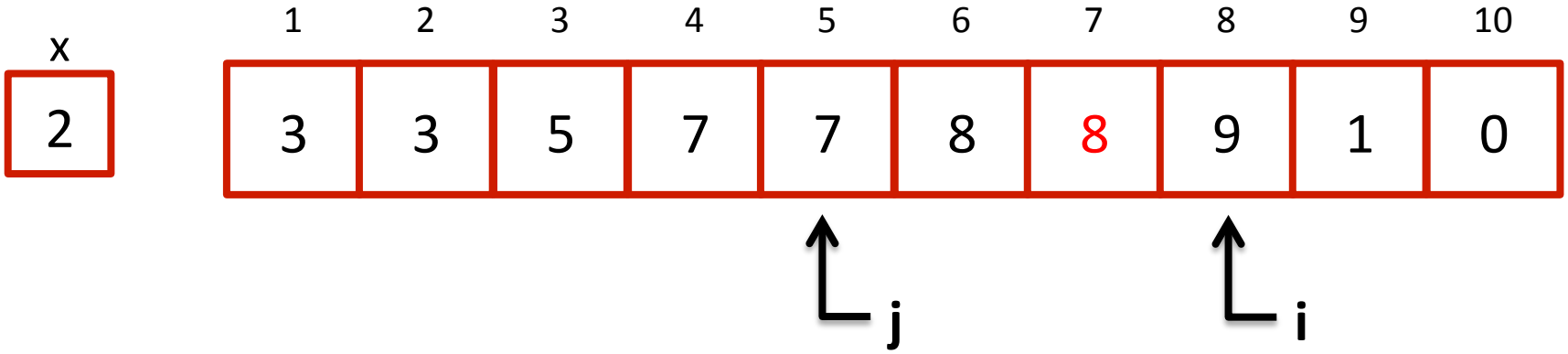

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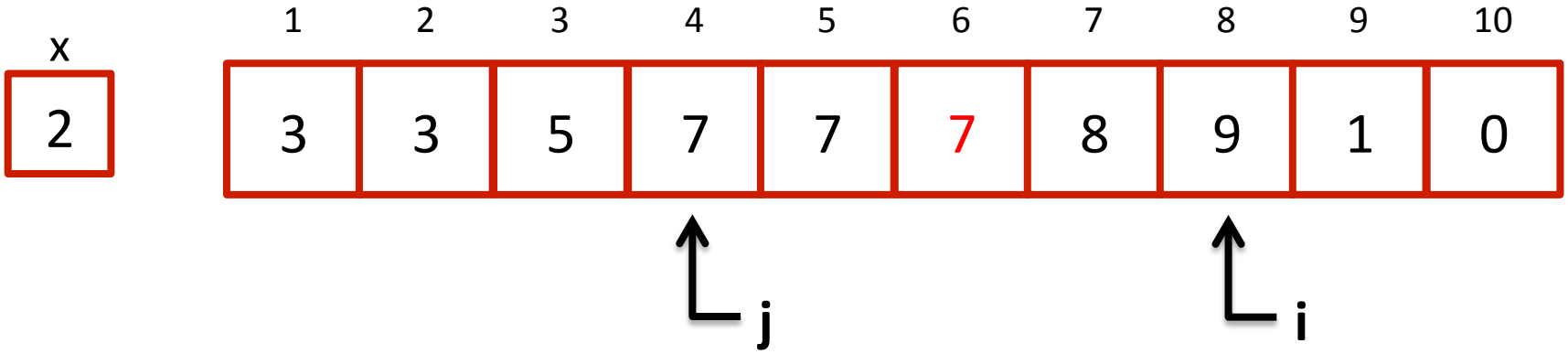

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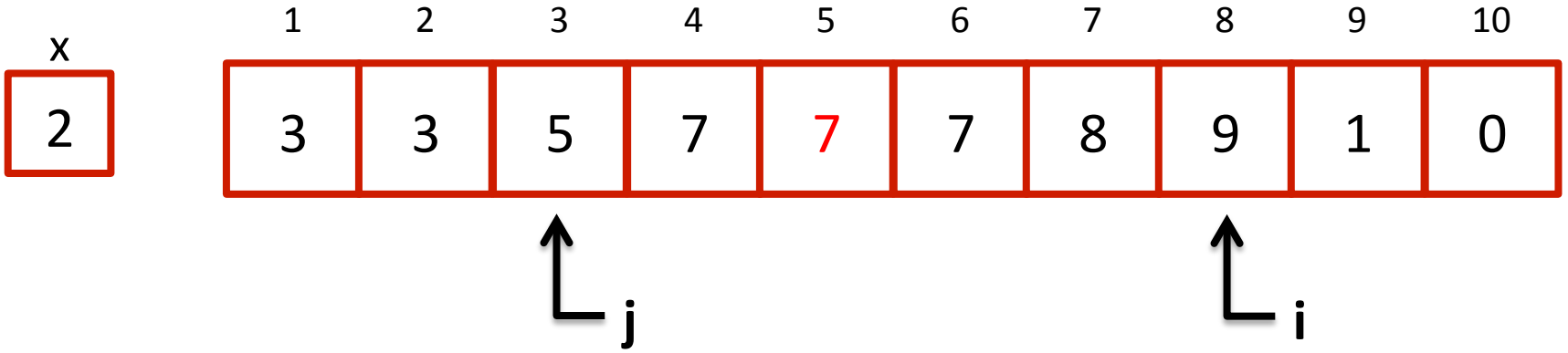

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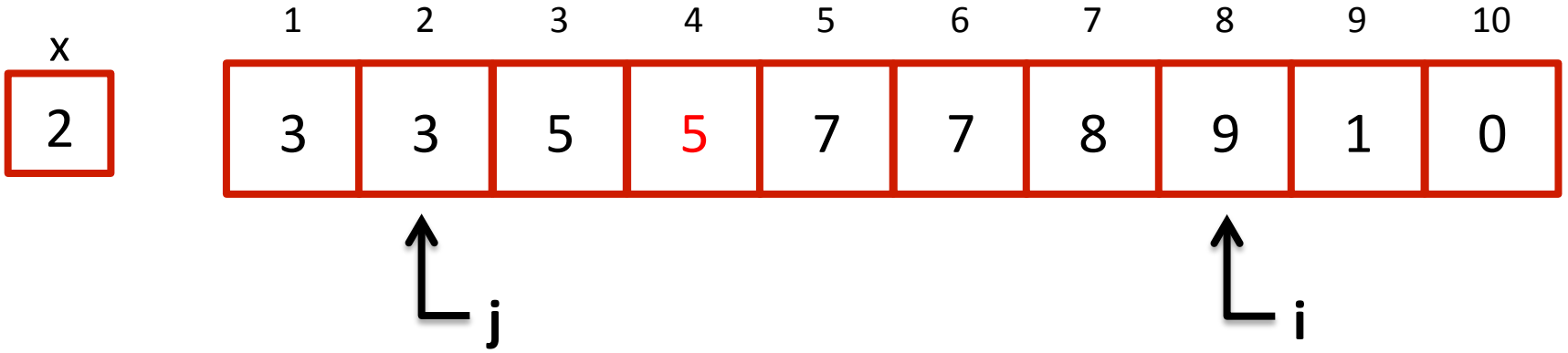

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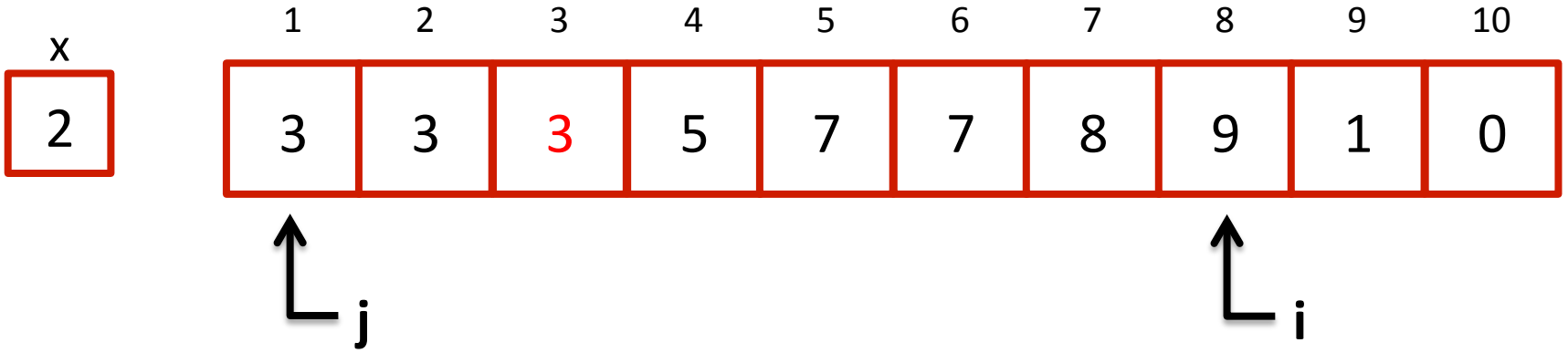

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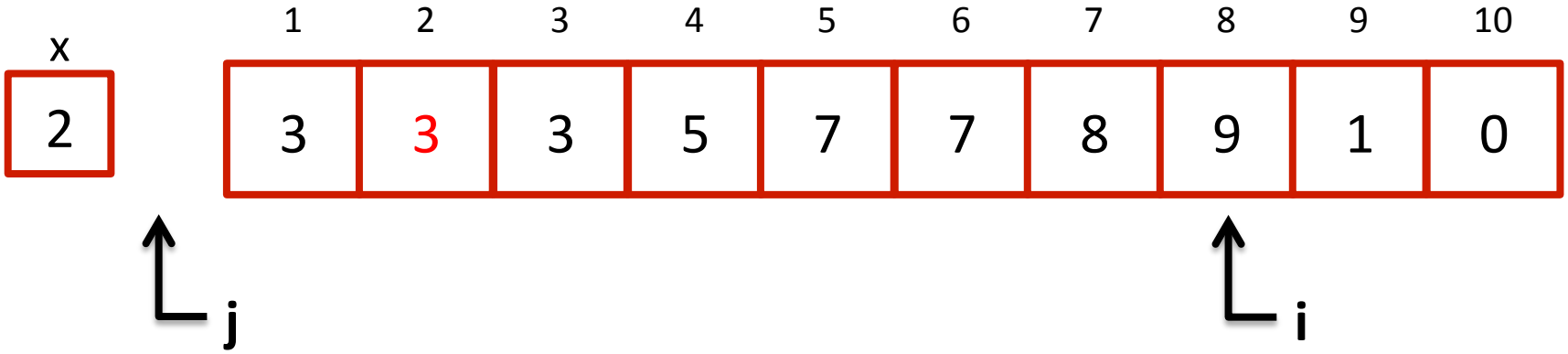

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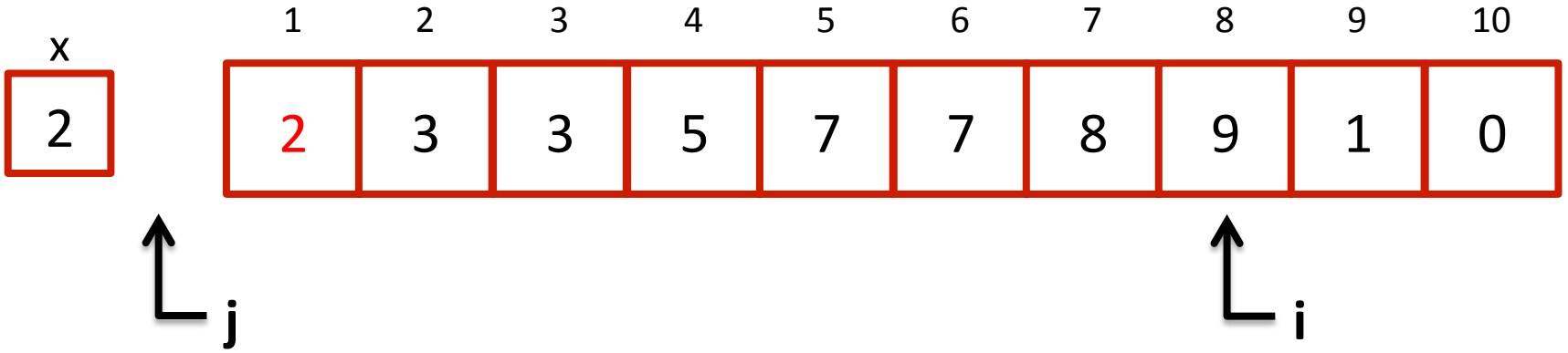

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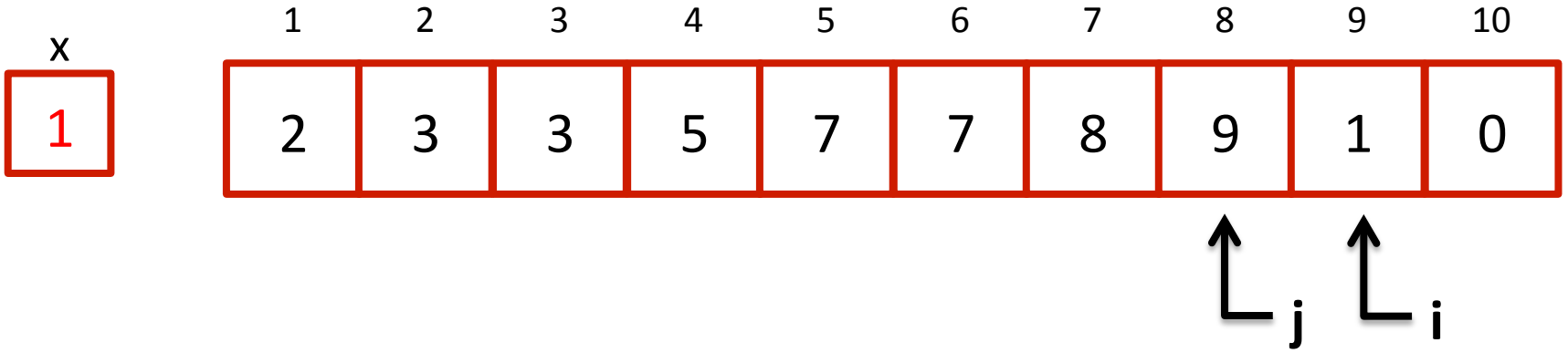

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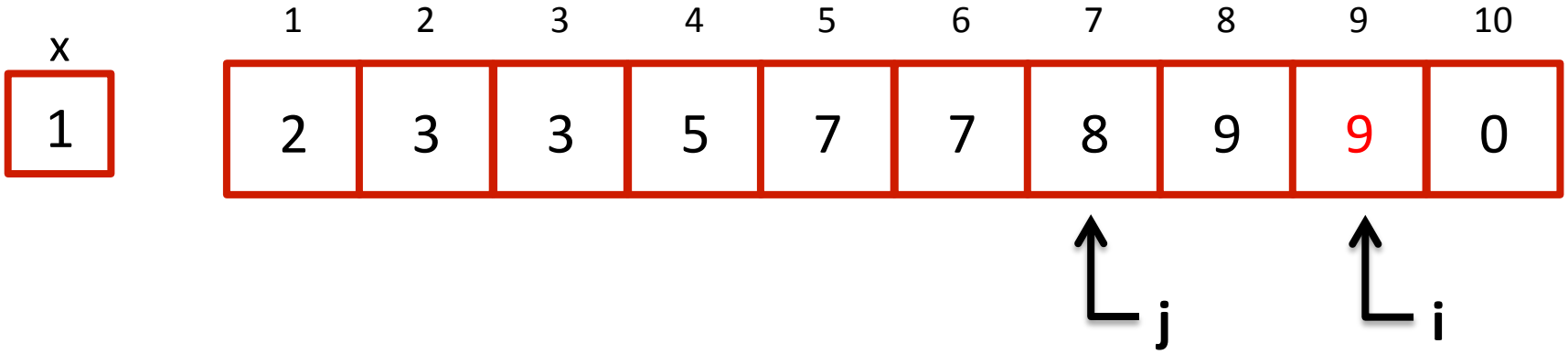

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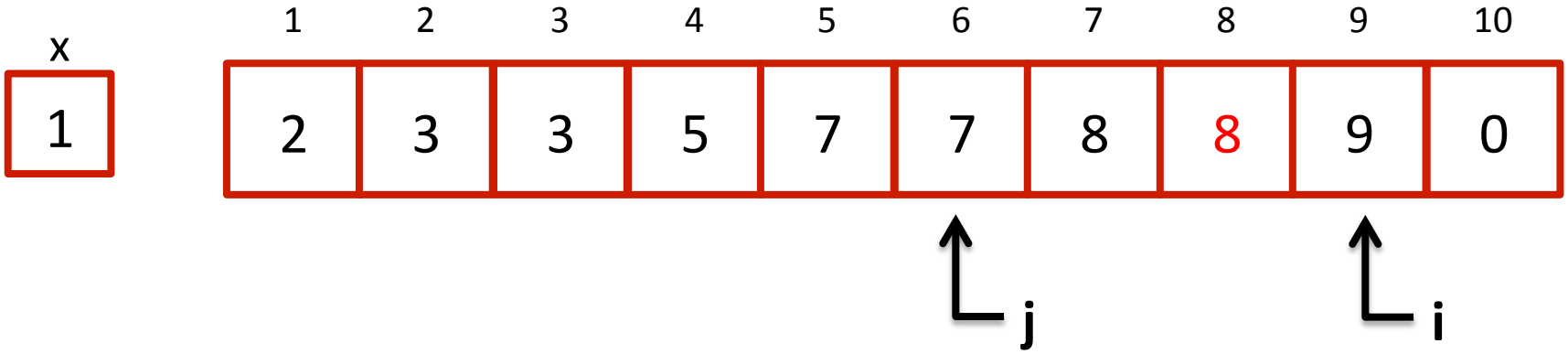

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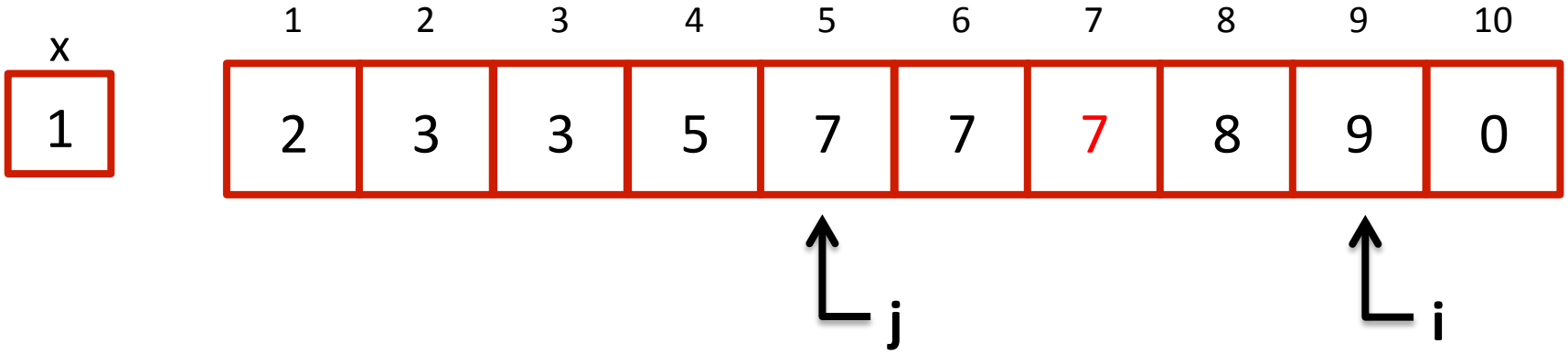

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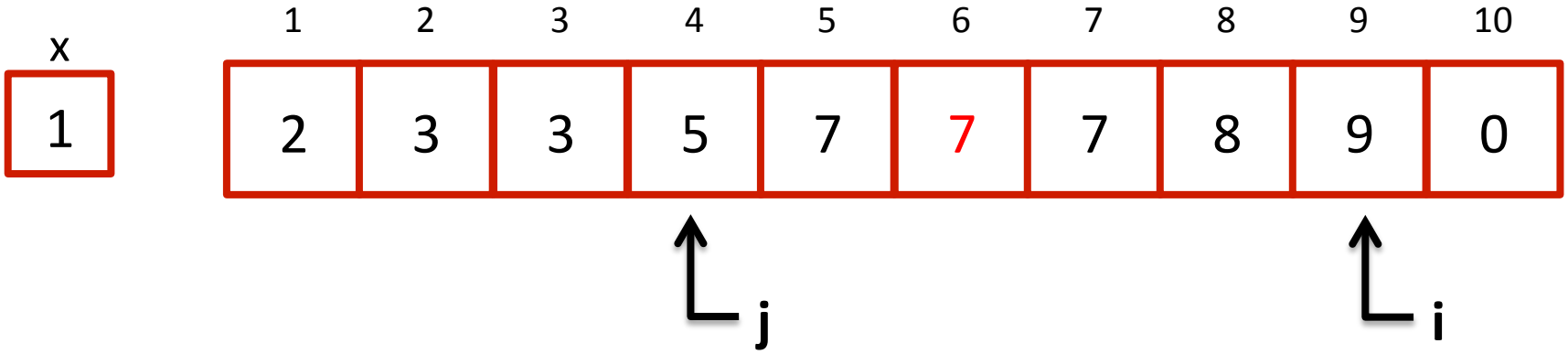

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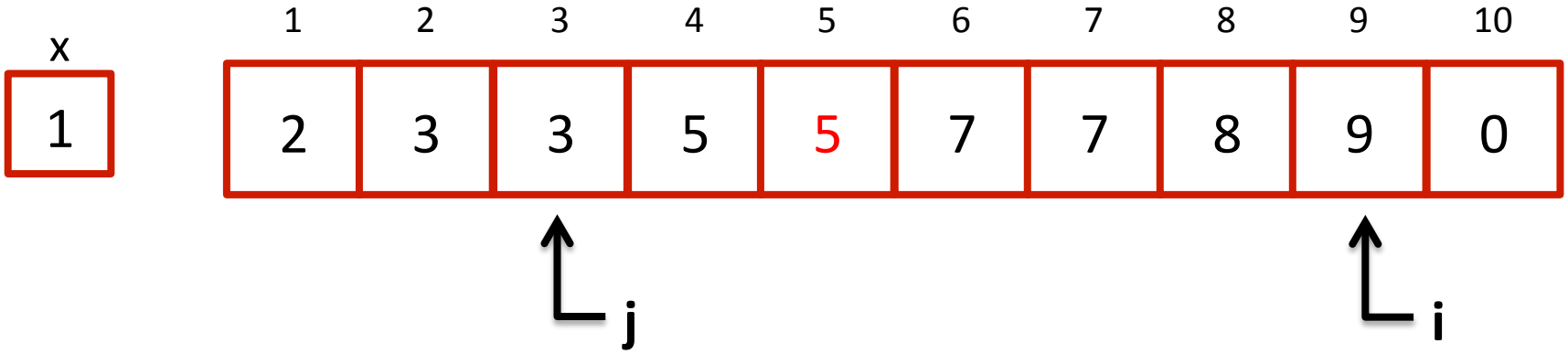

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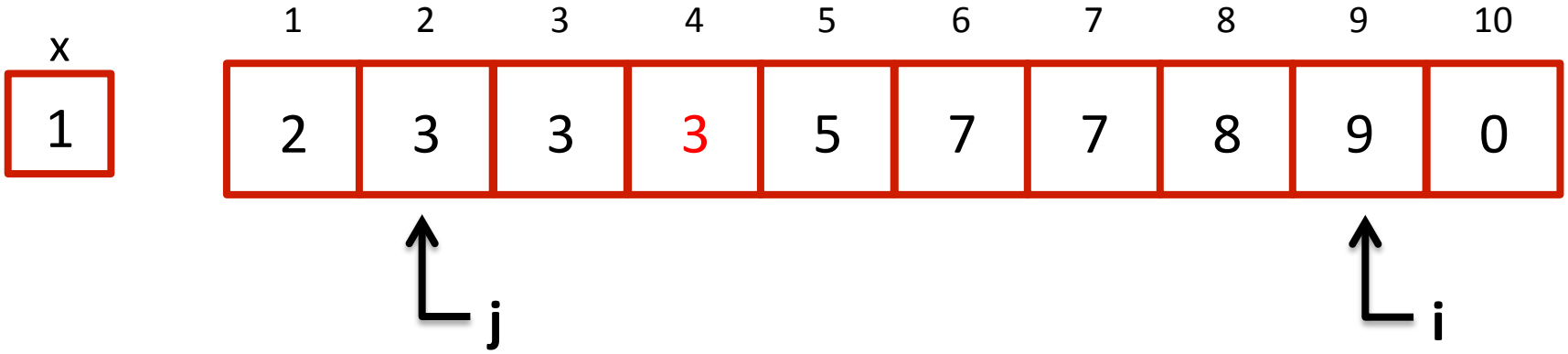

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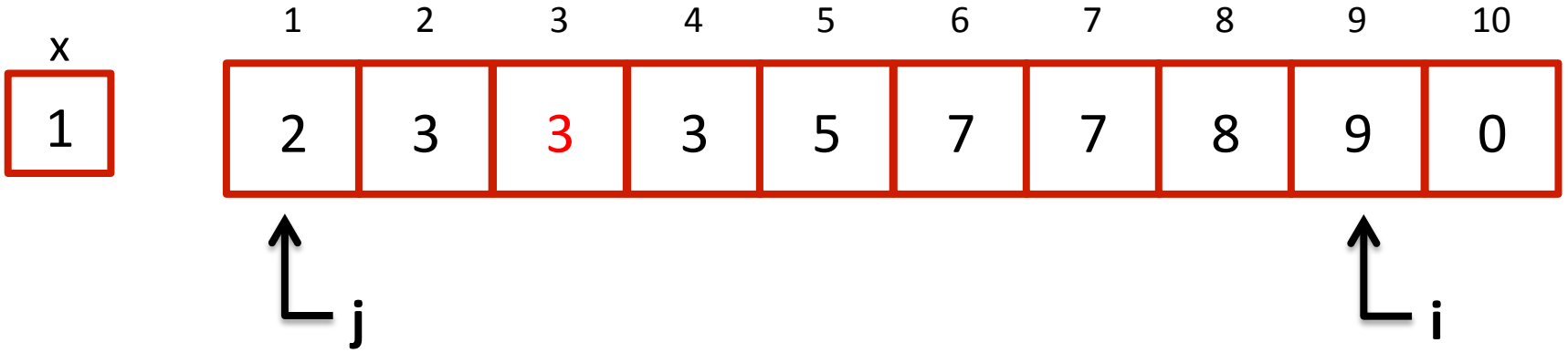

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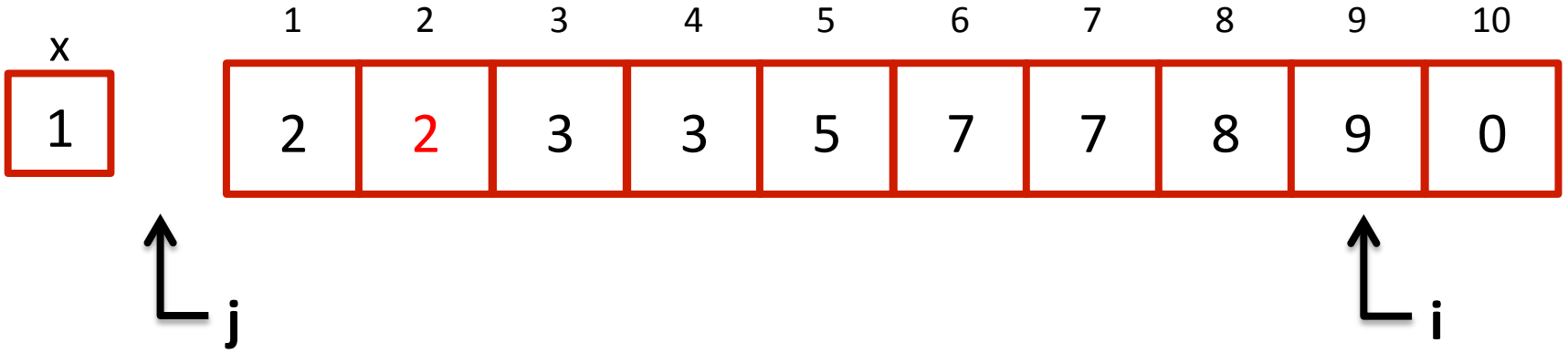

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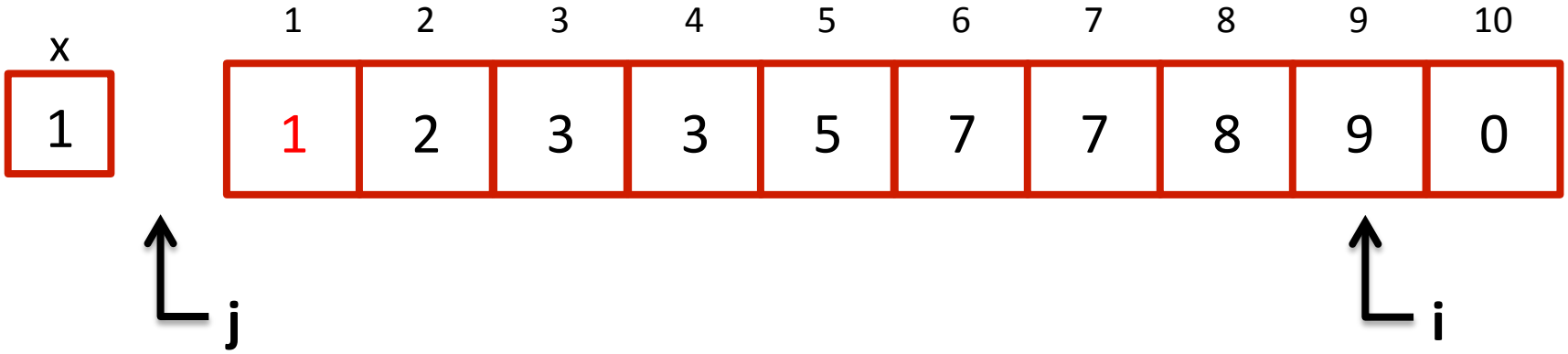

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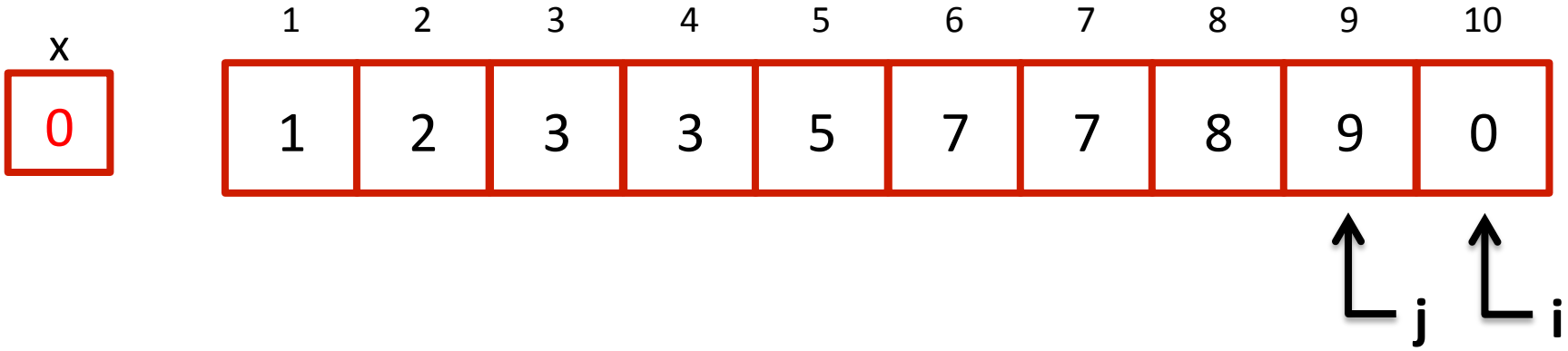

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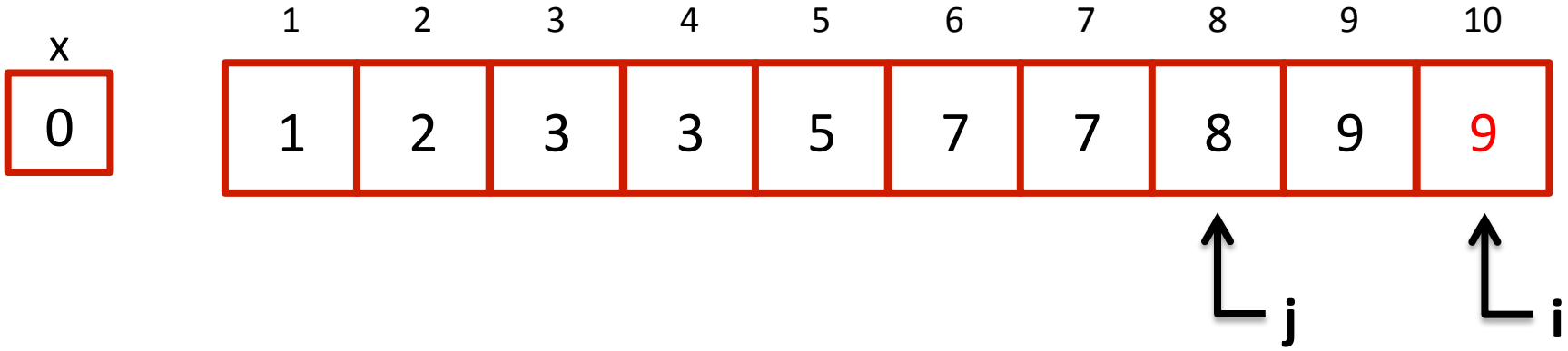

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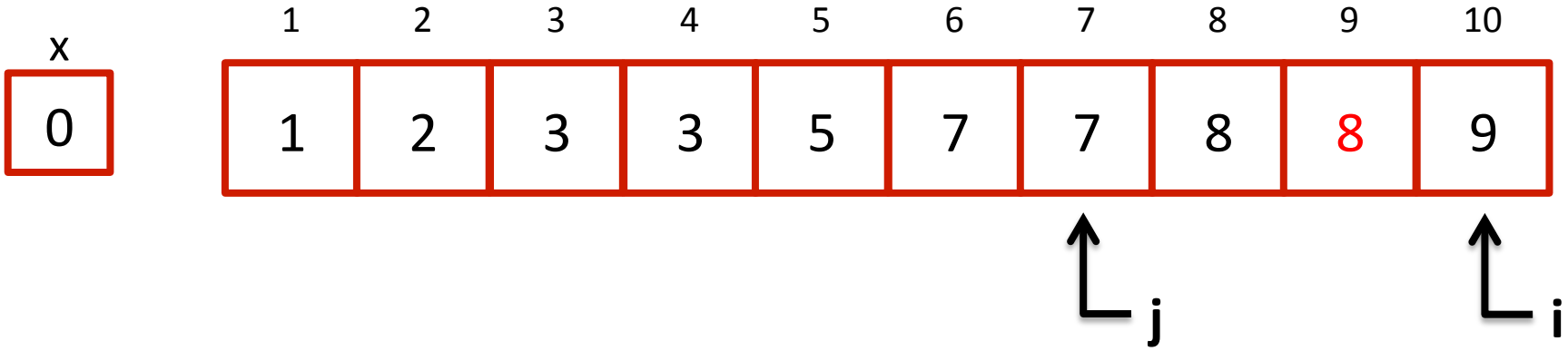

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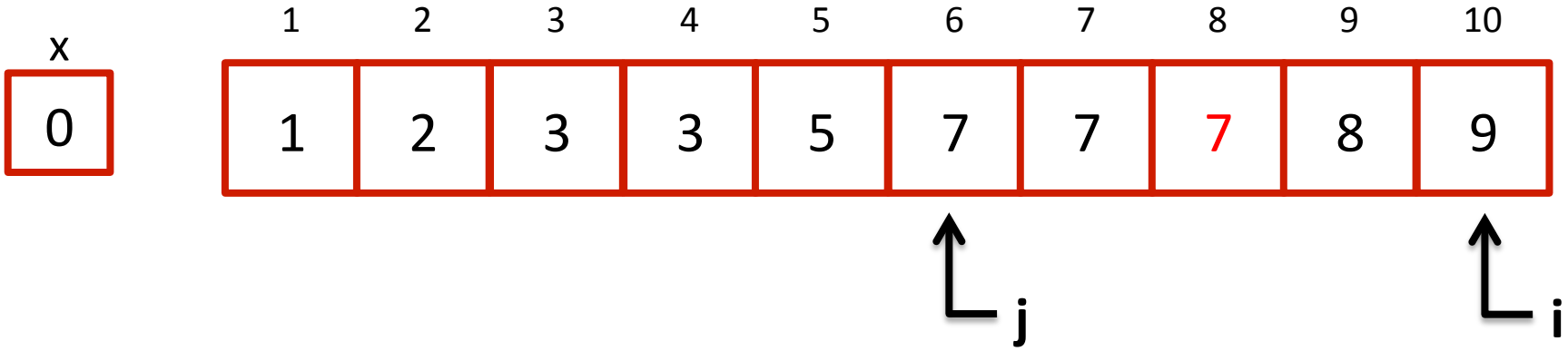

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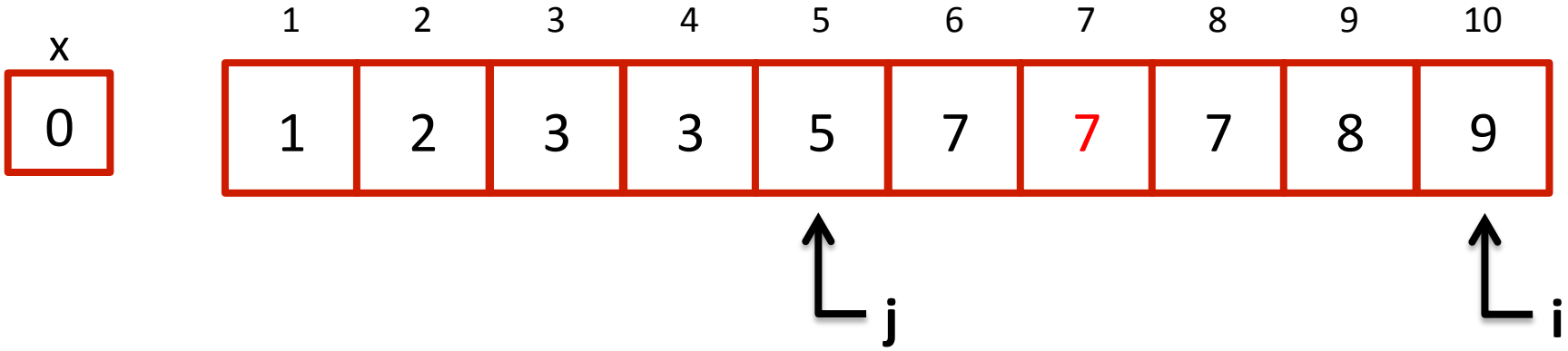

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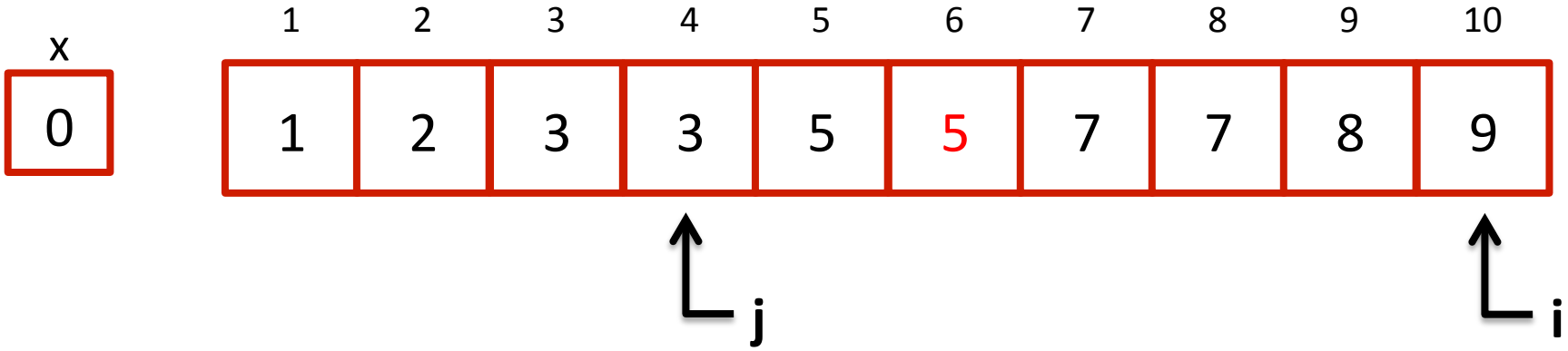

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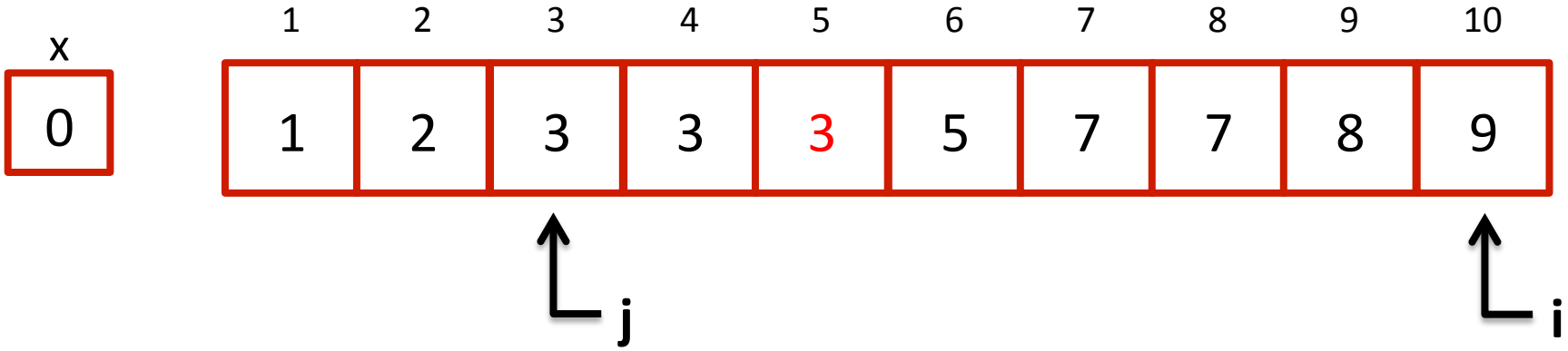

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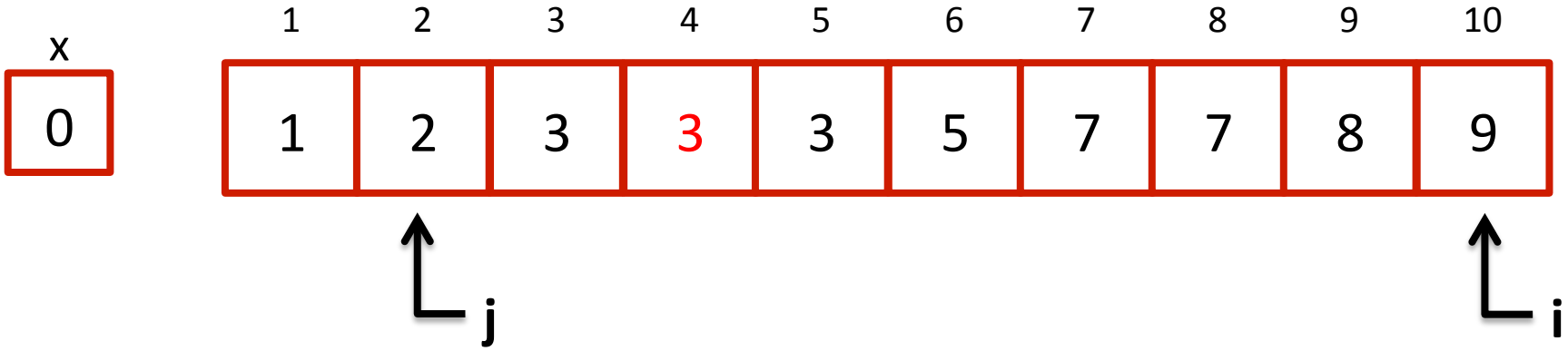

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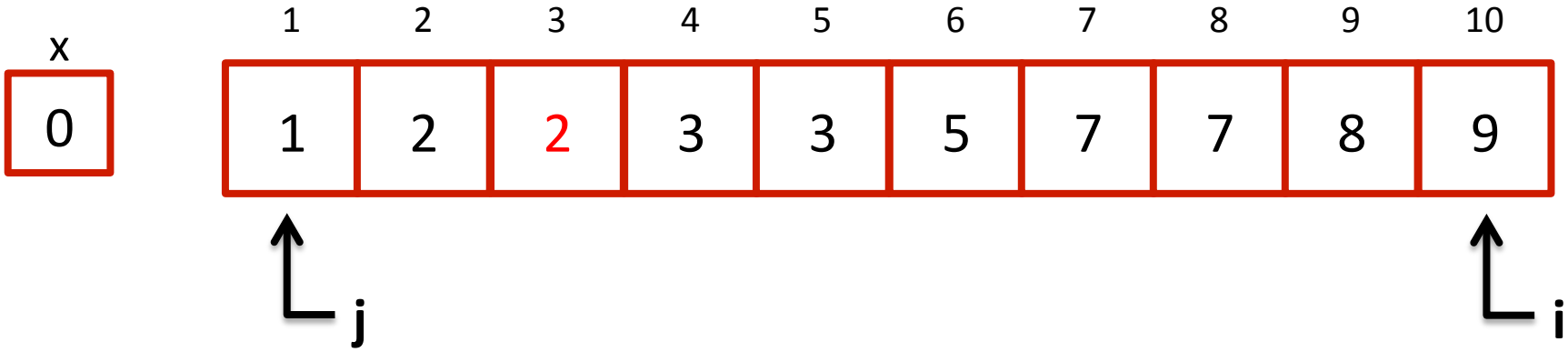

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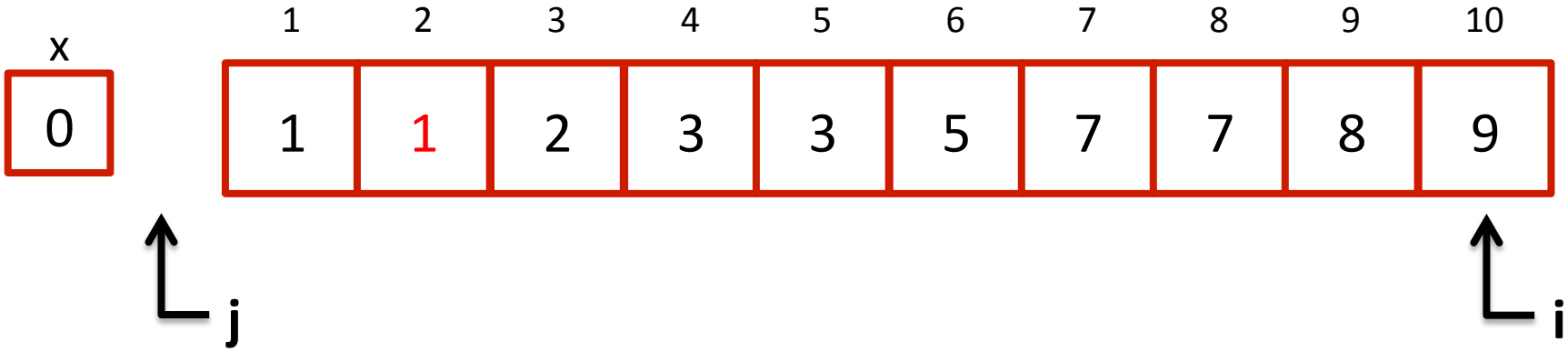

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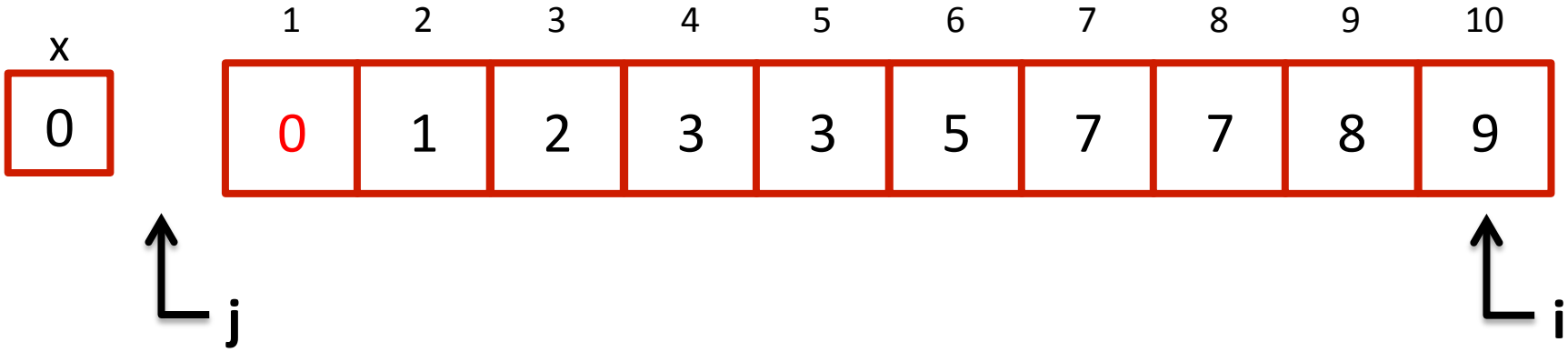

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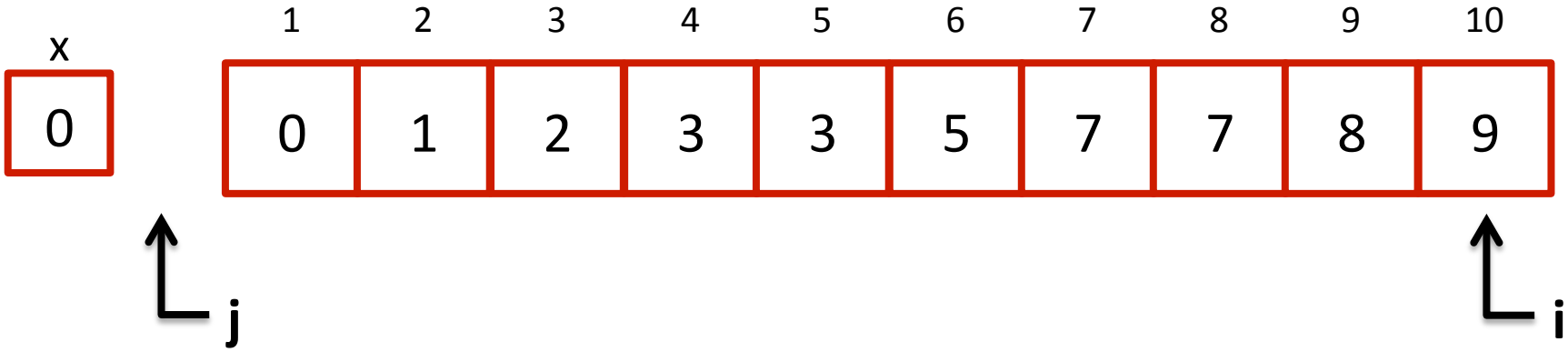

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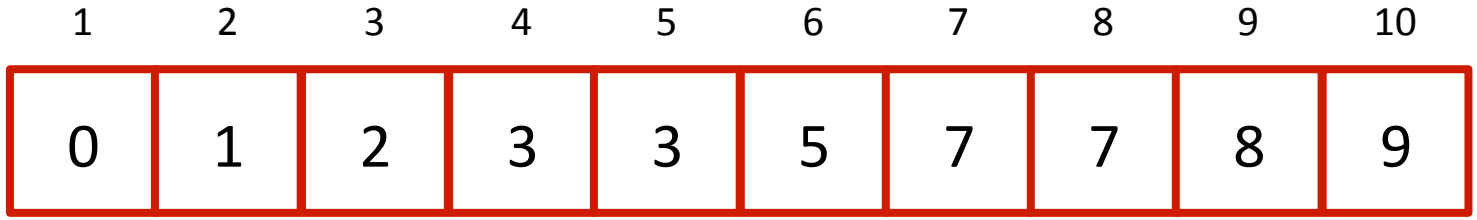

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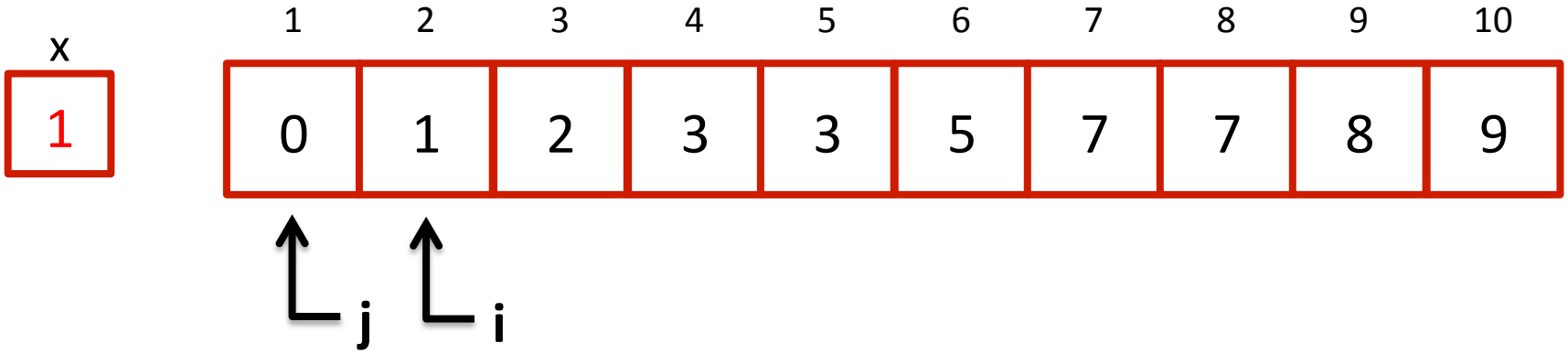

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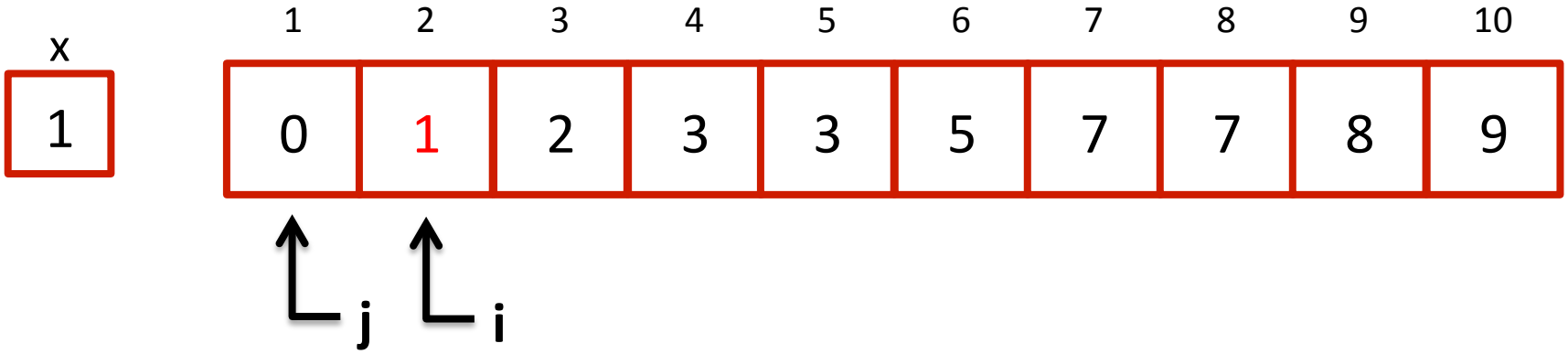

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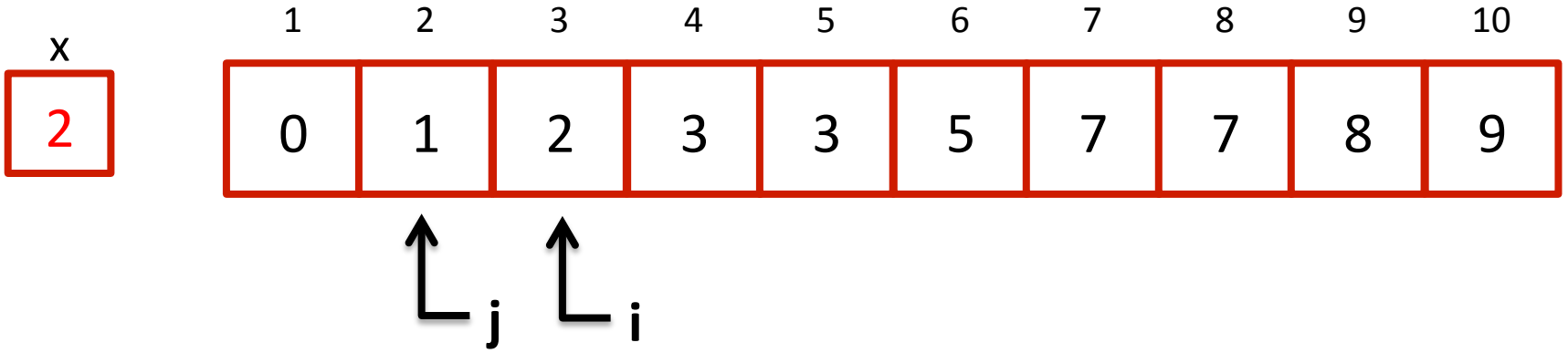

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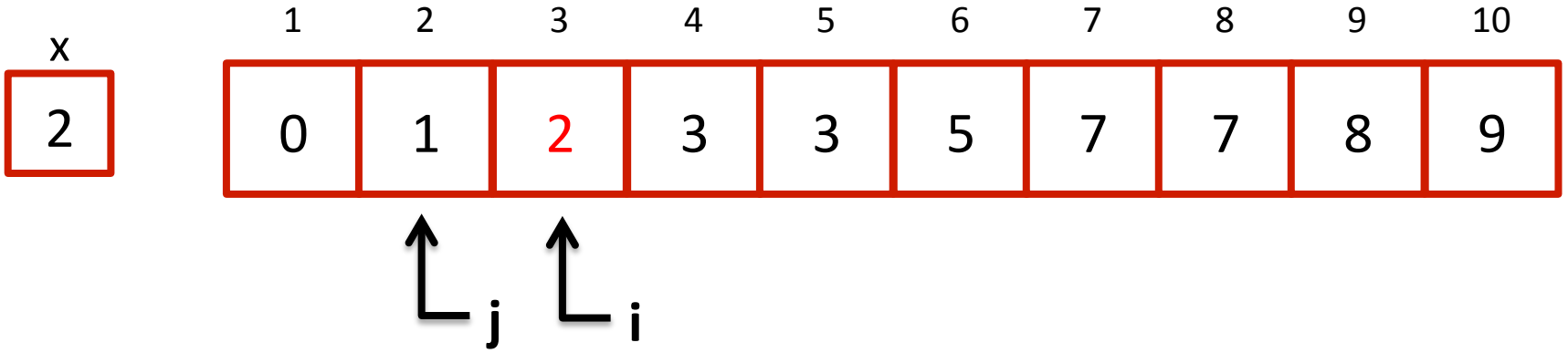

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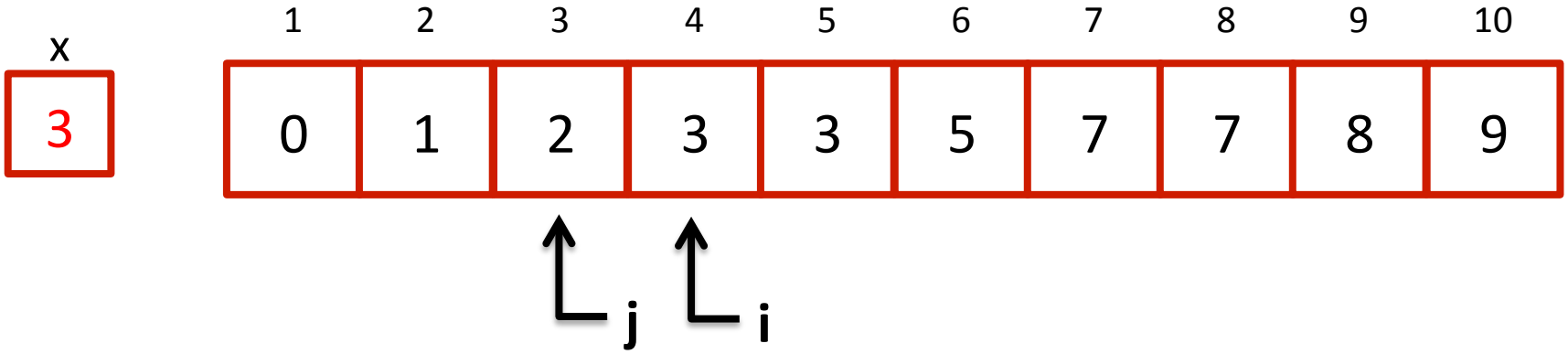

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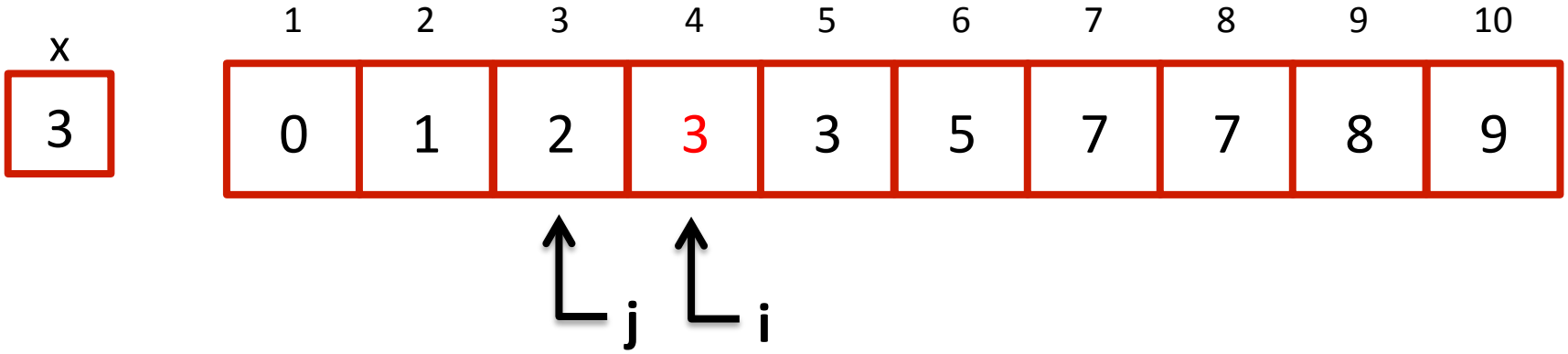

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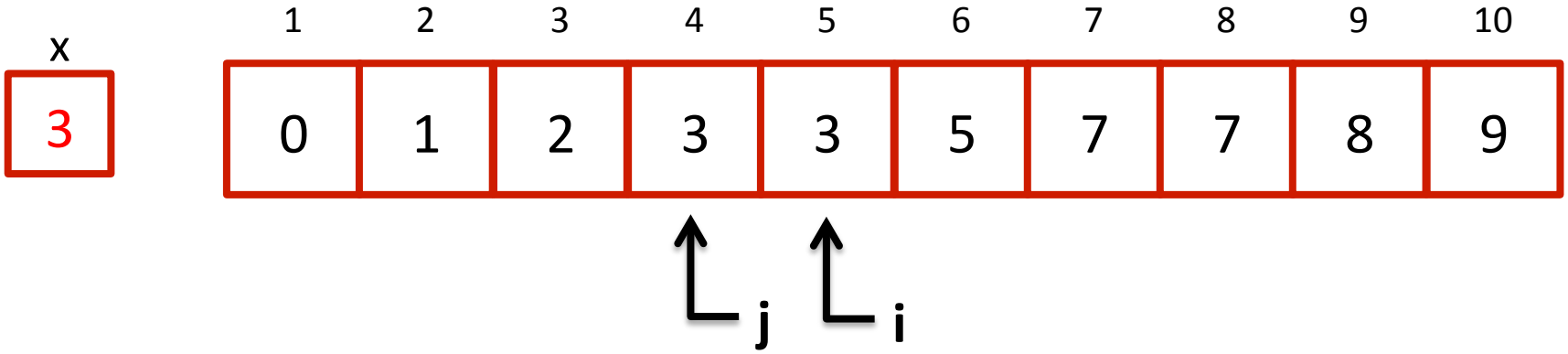

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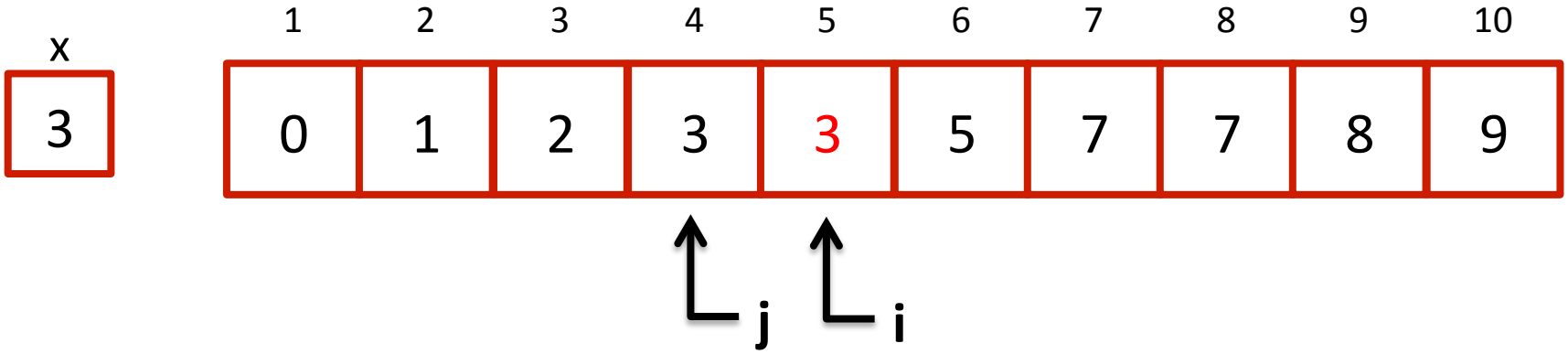

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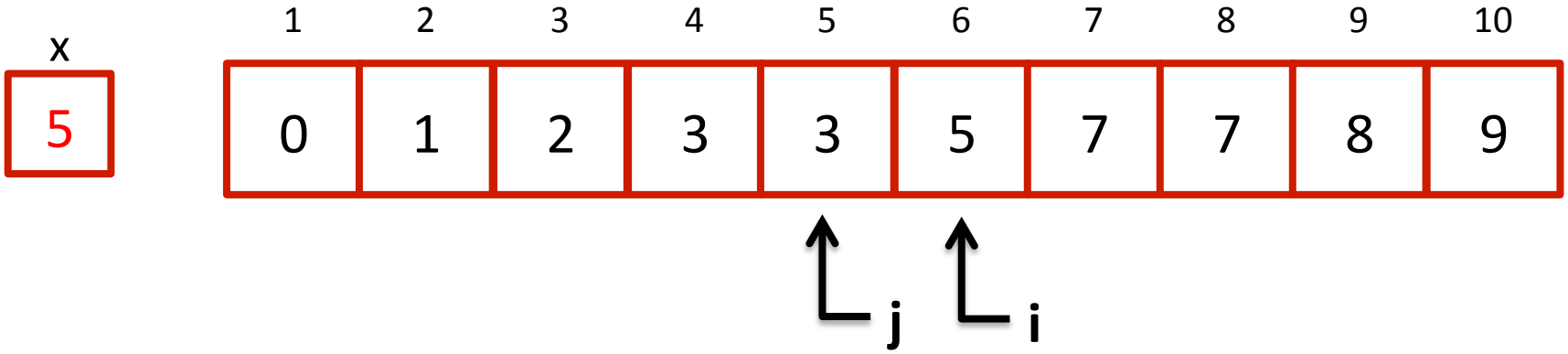

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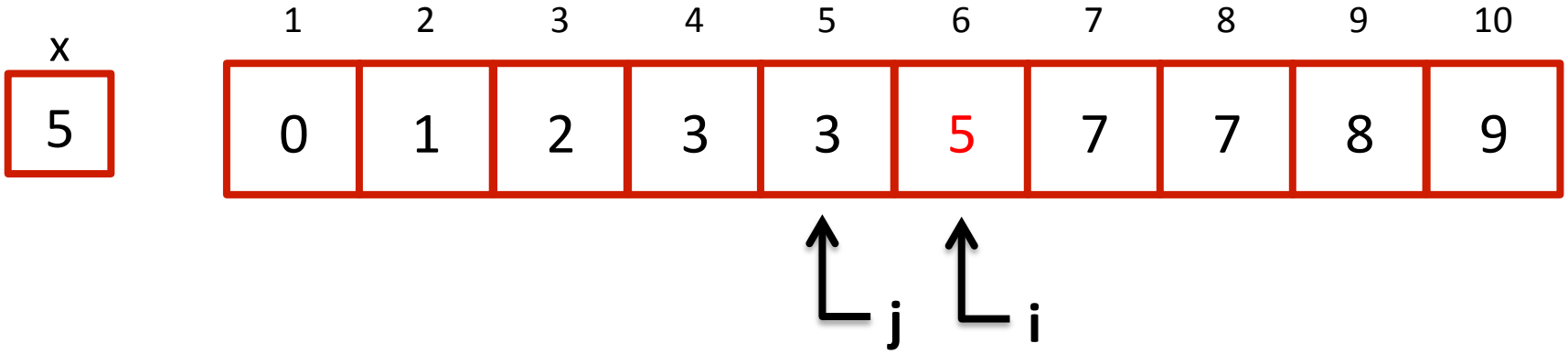

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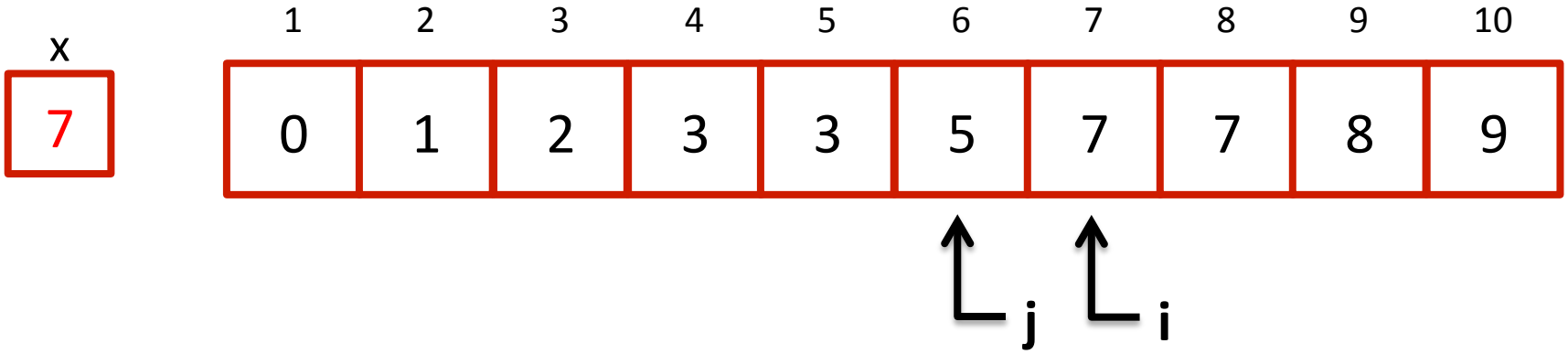

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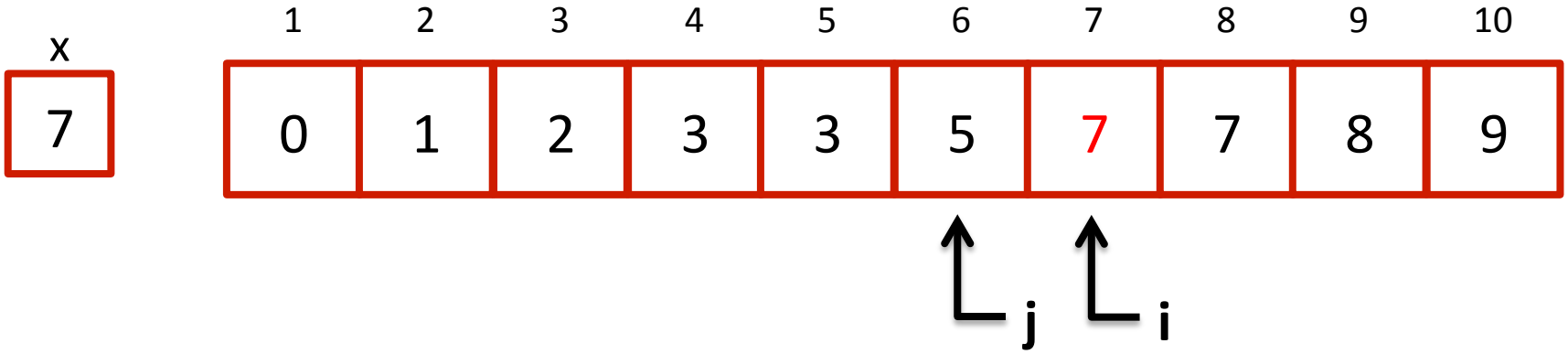

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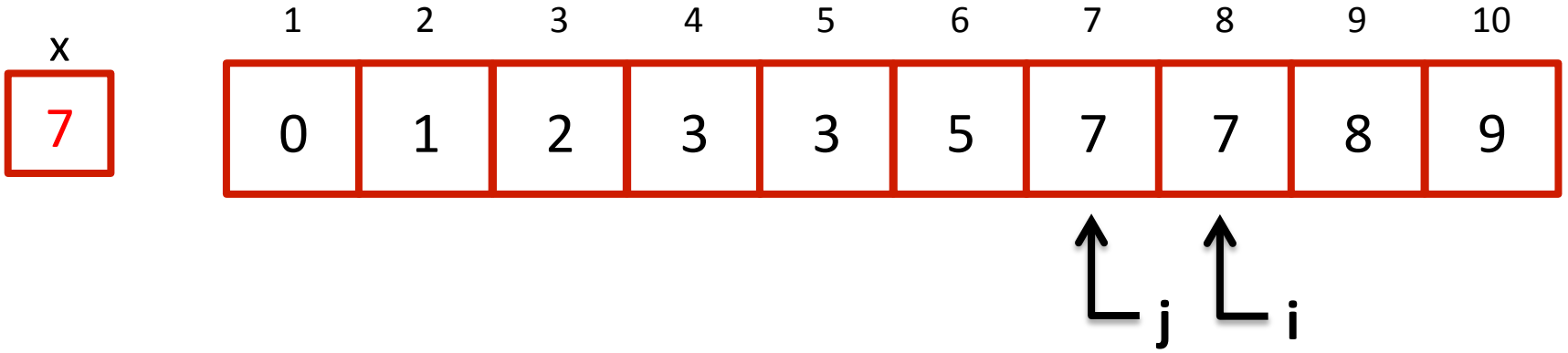

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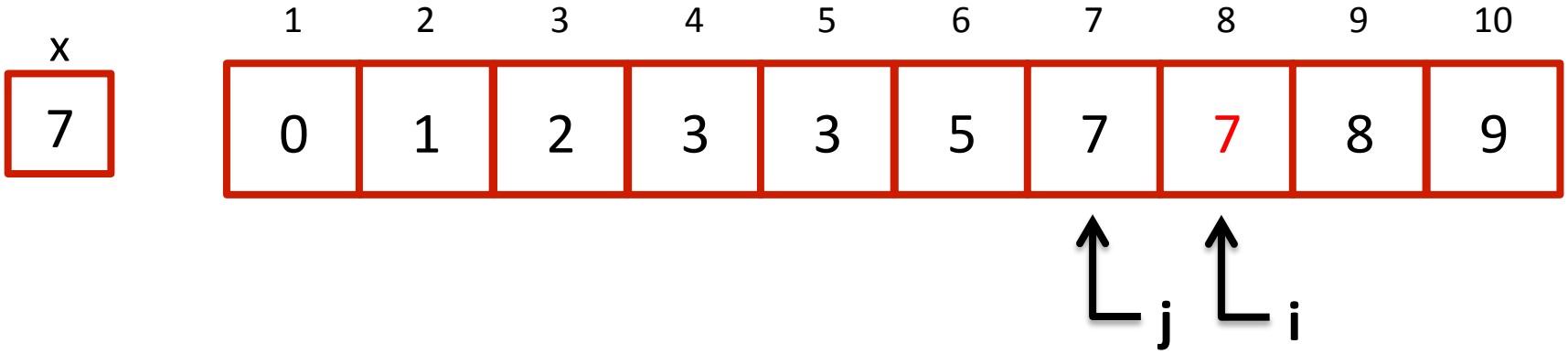

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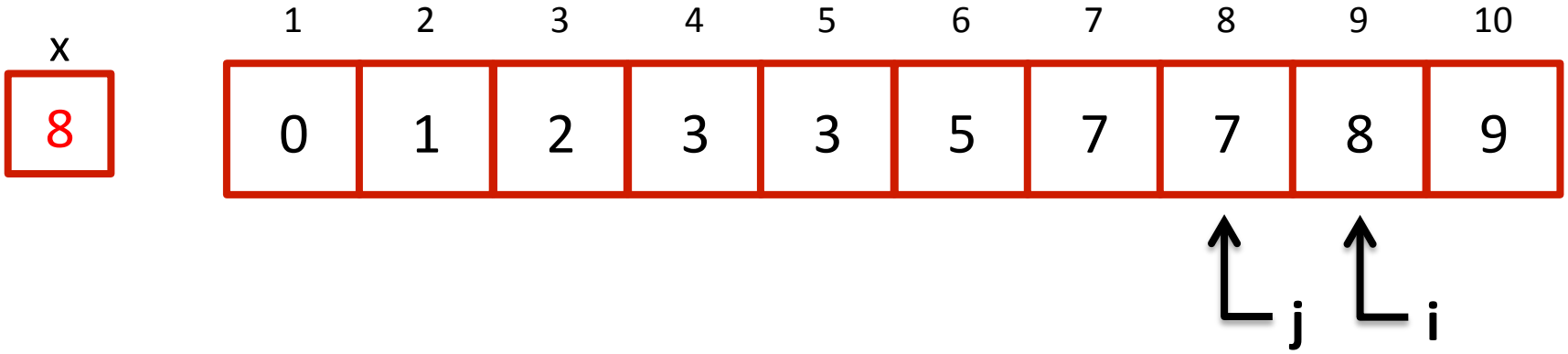

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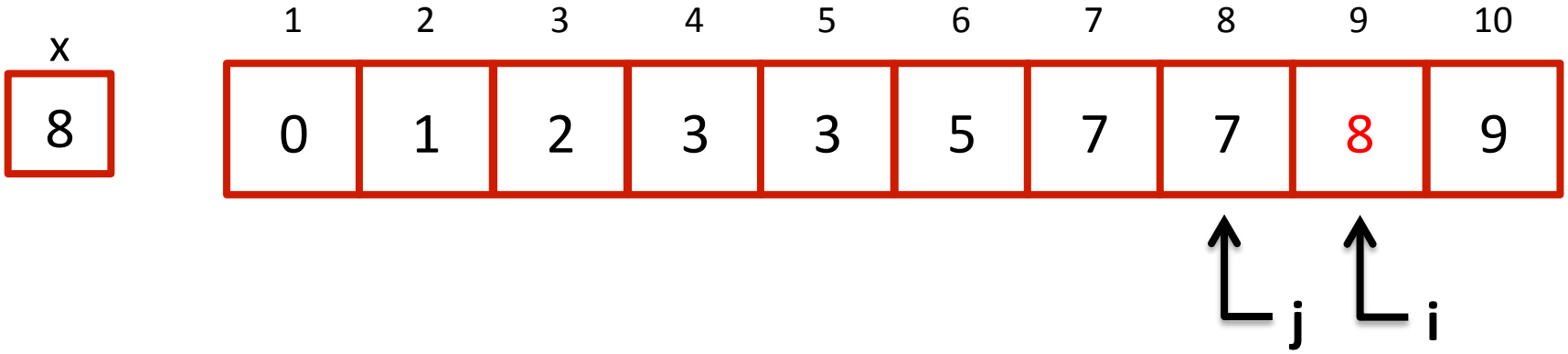

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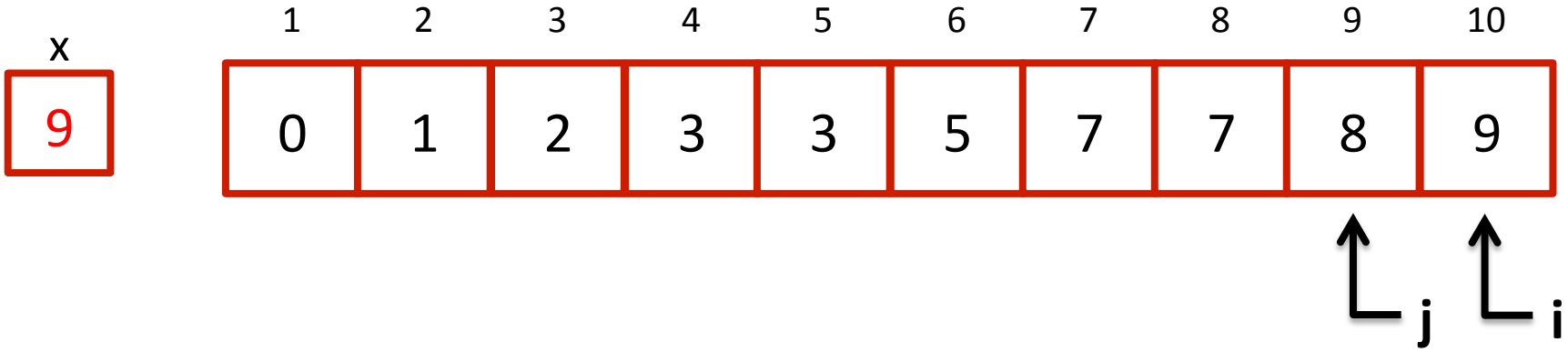

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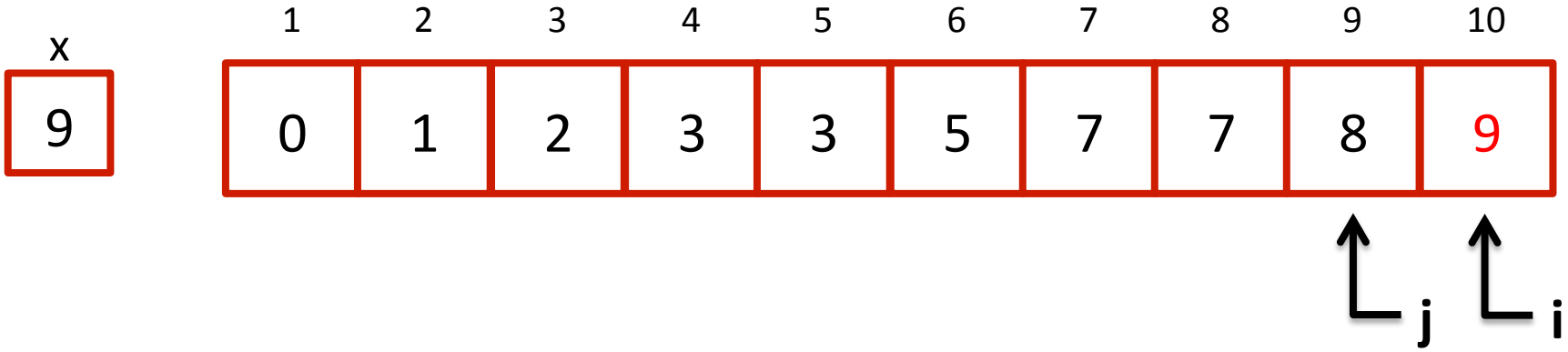

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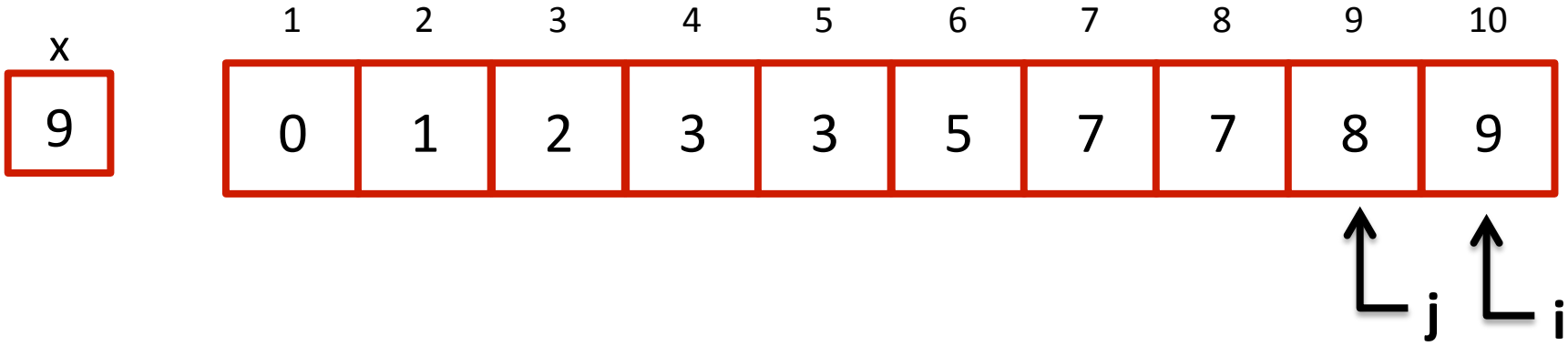

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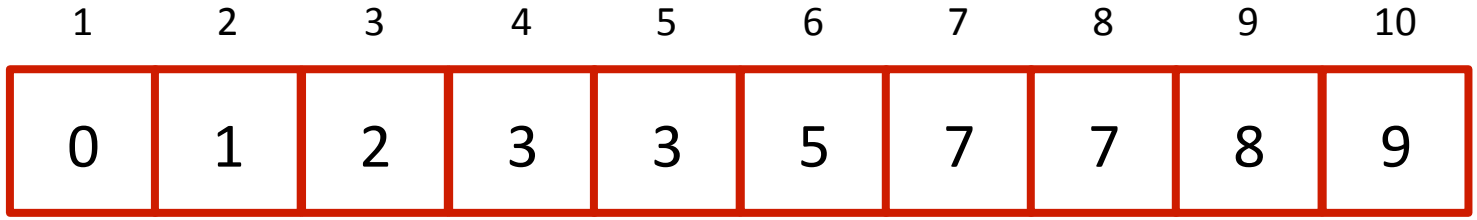

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    for i:=1 to n-1 do
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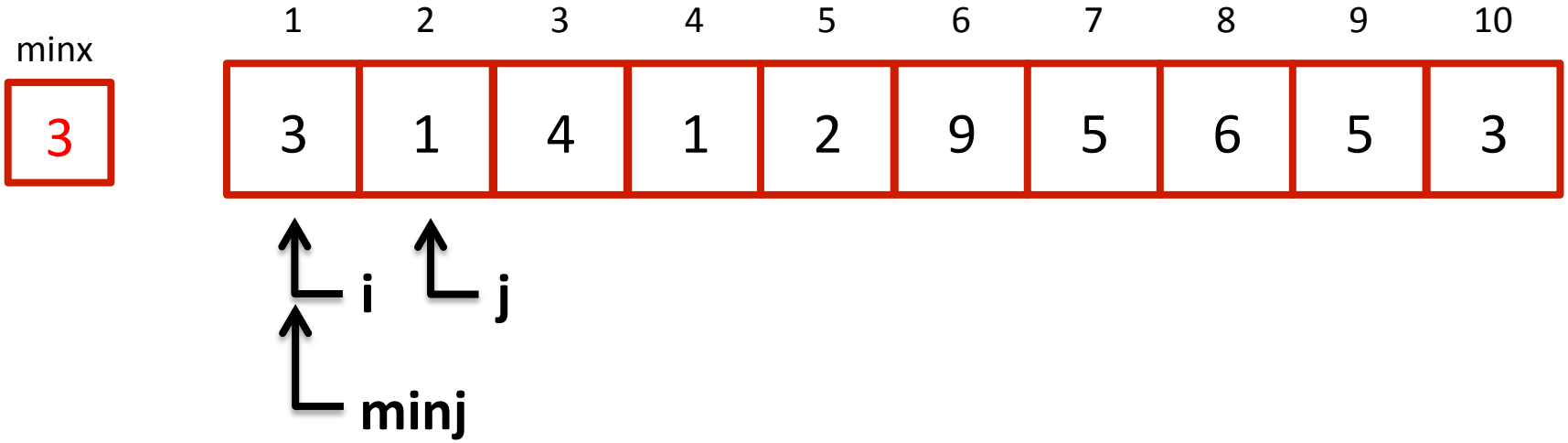

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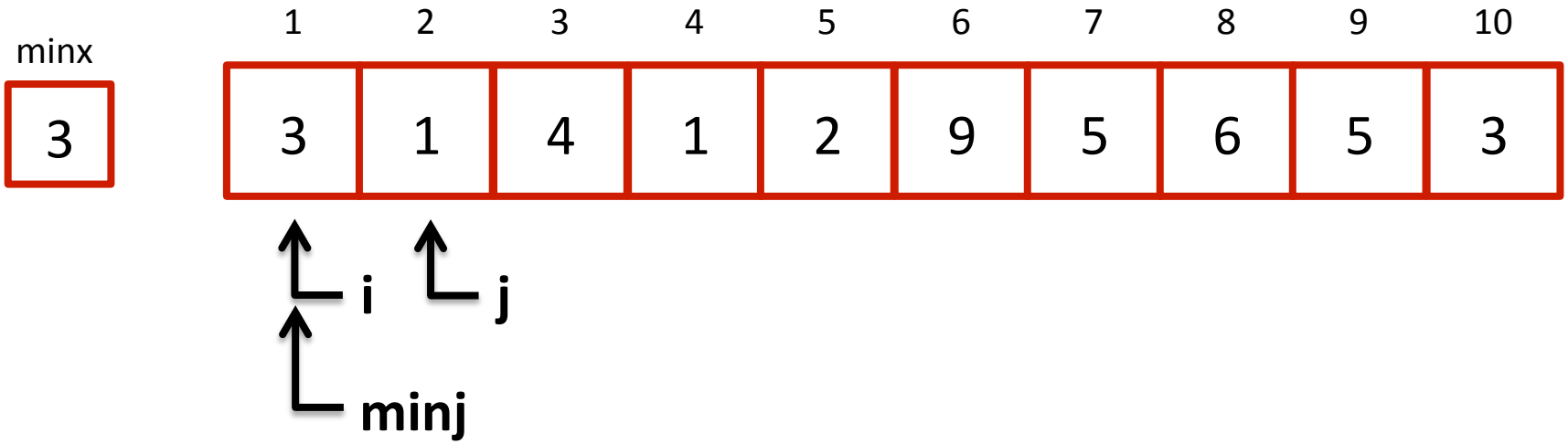

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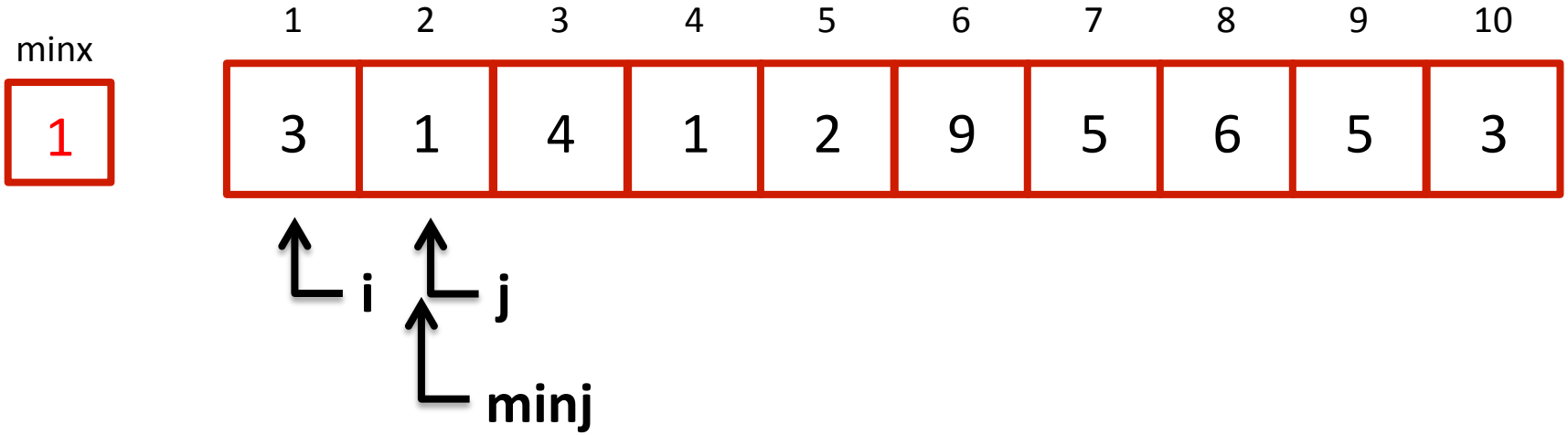

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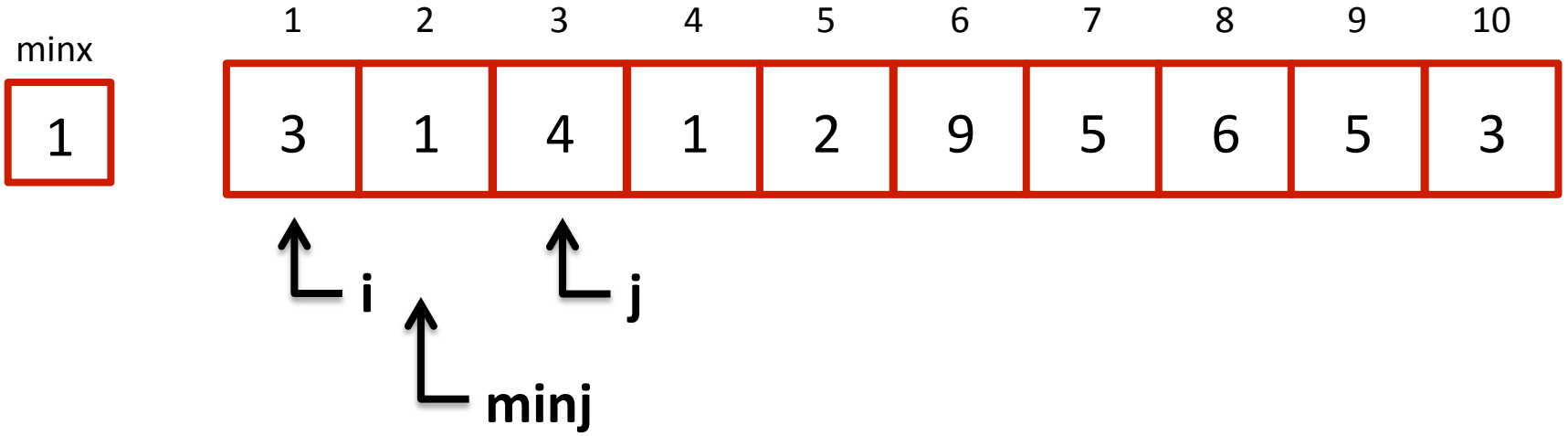

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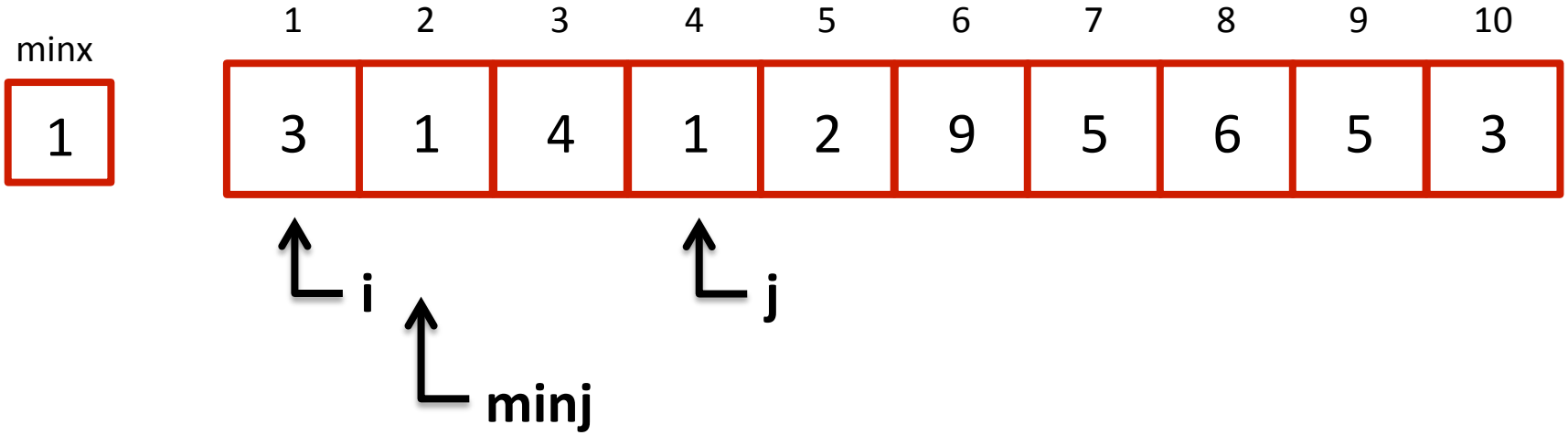

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    end for
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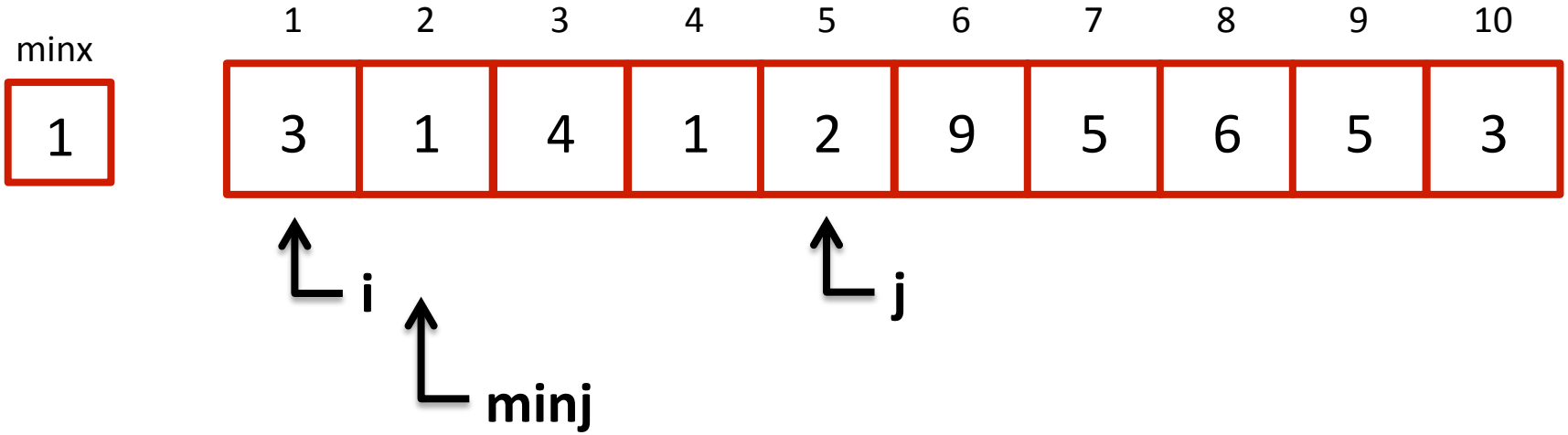

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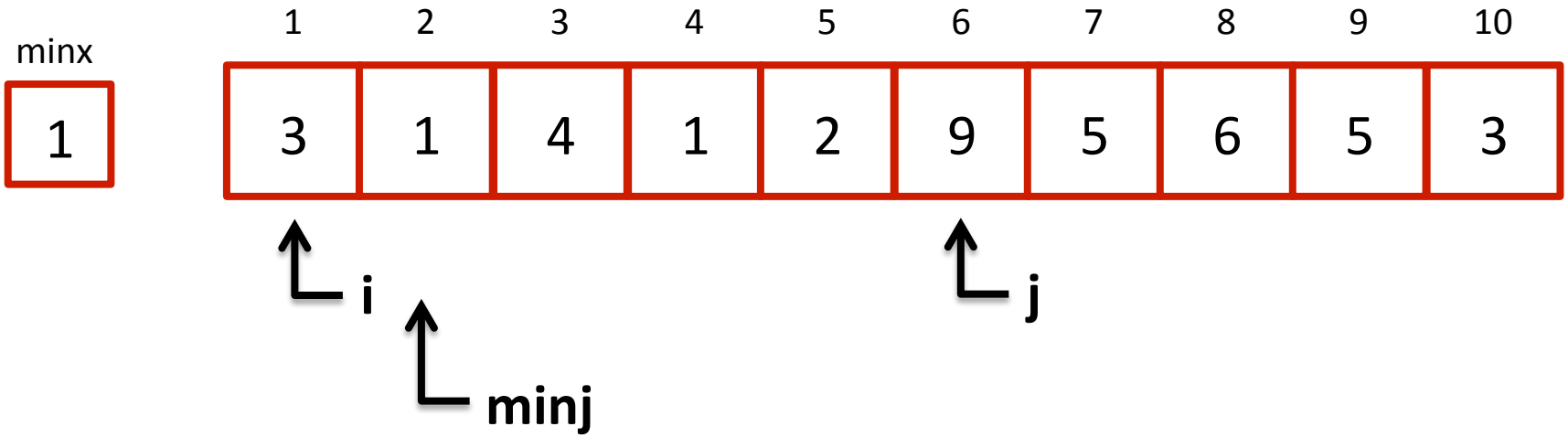

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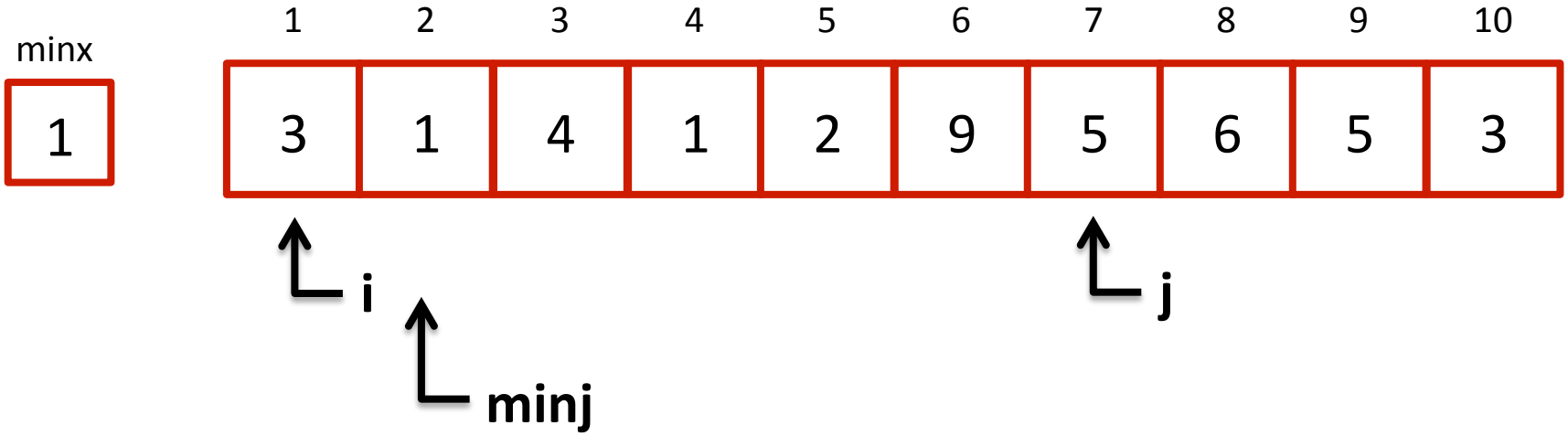

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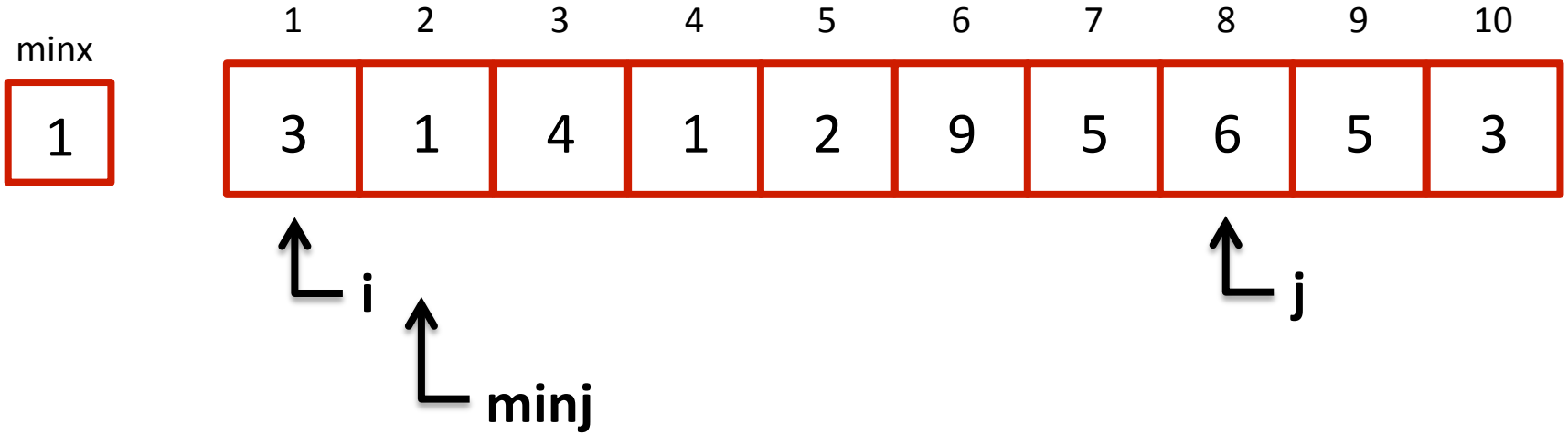

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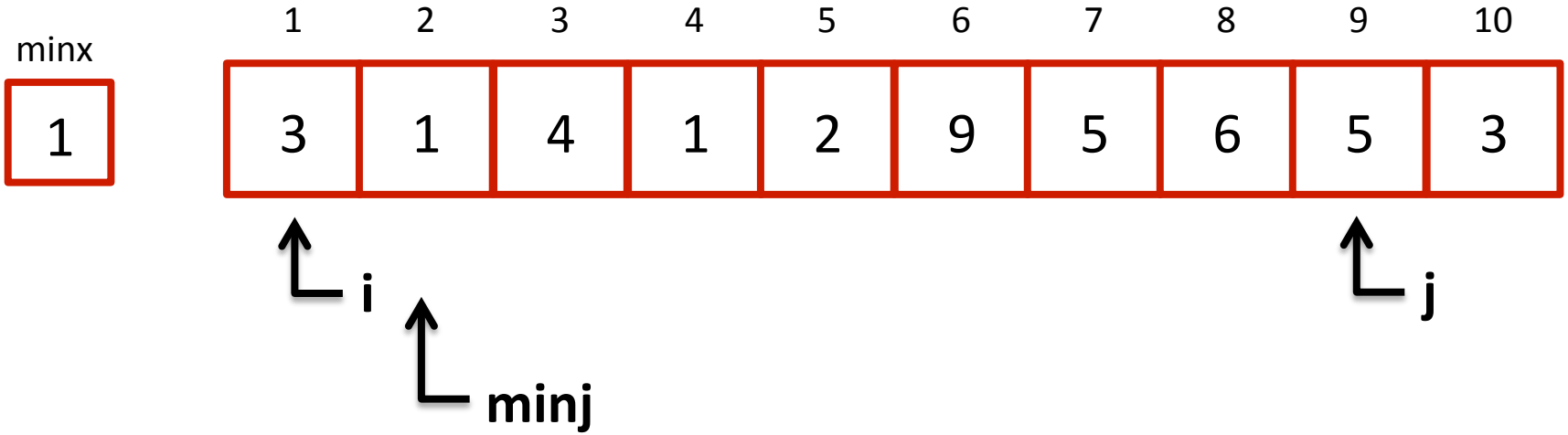

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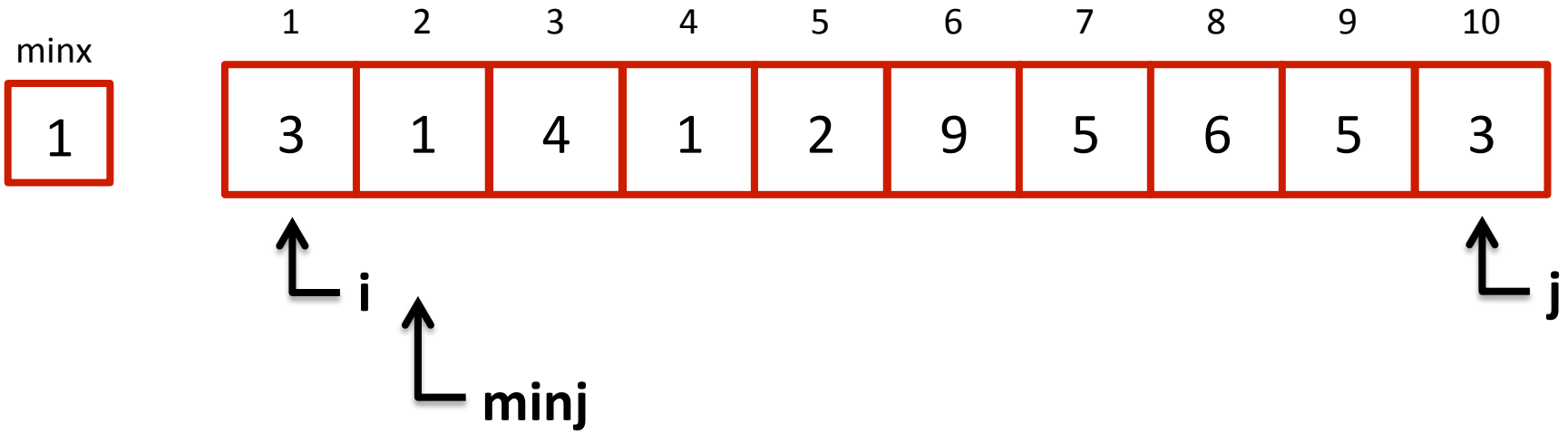

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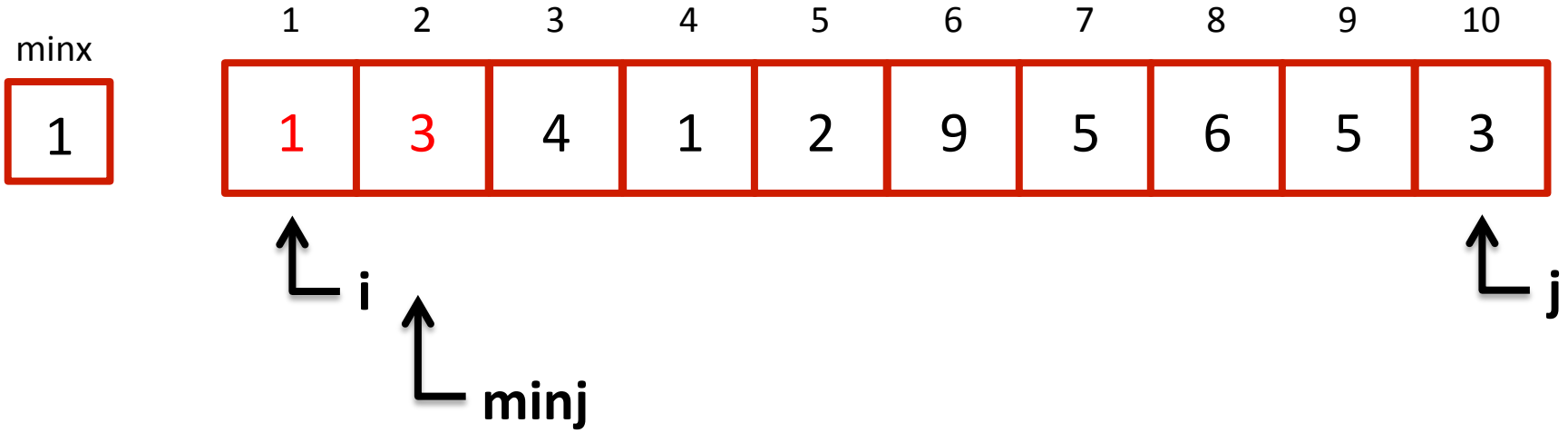

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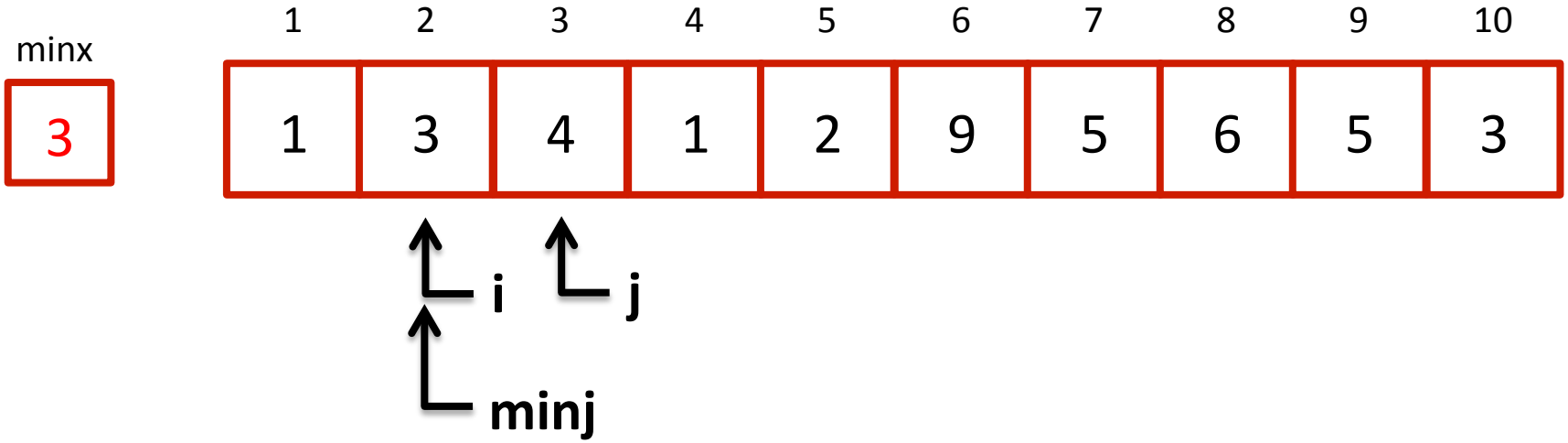

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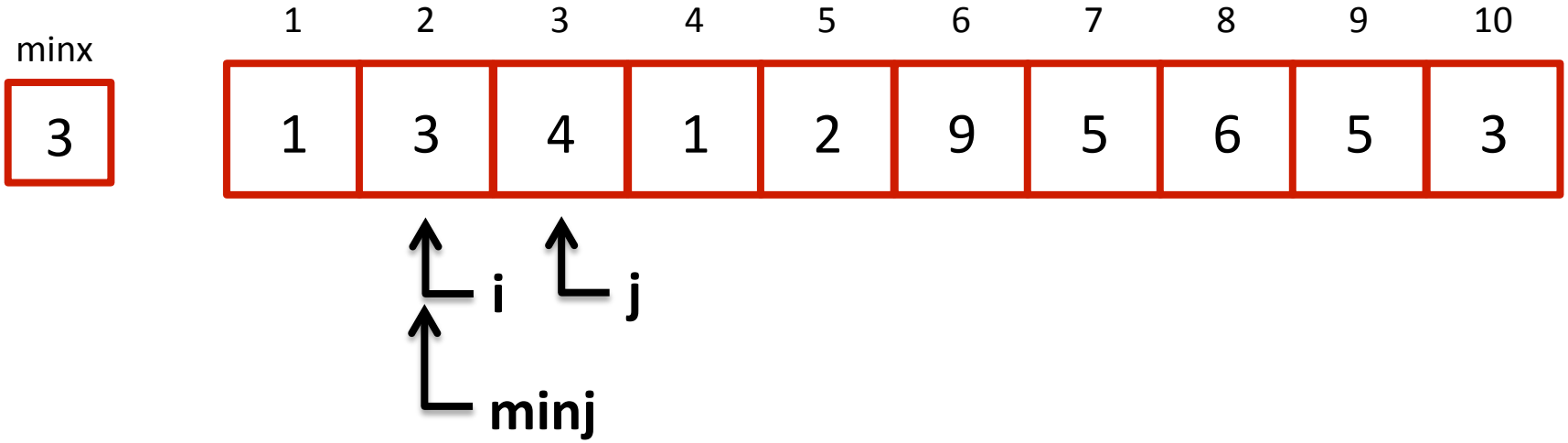

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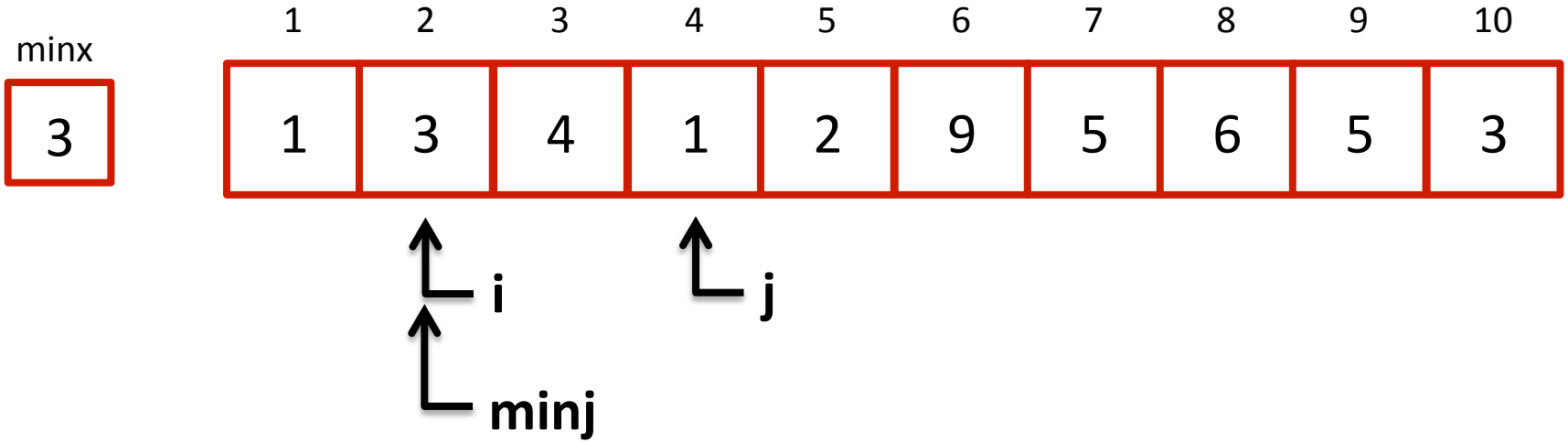

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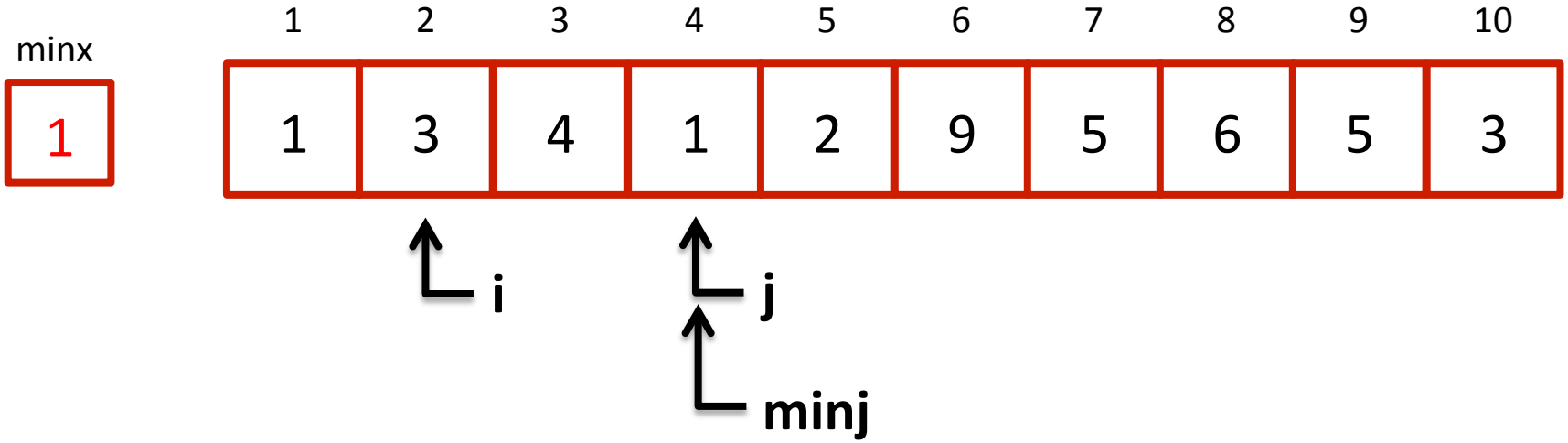

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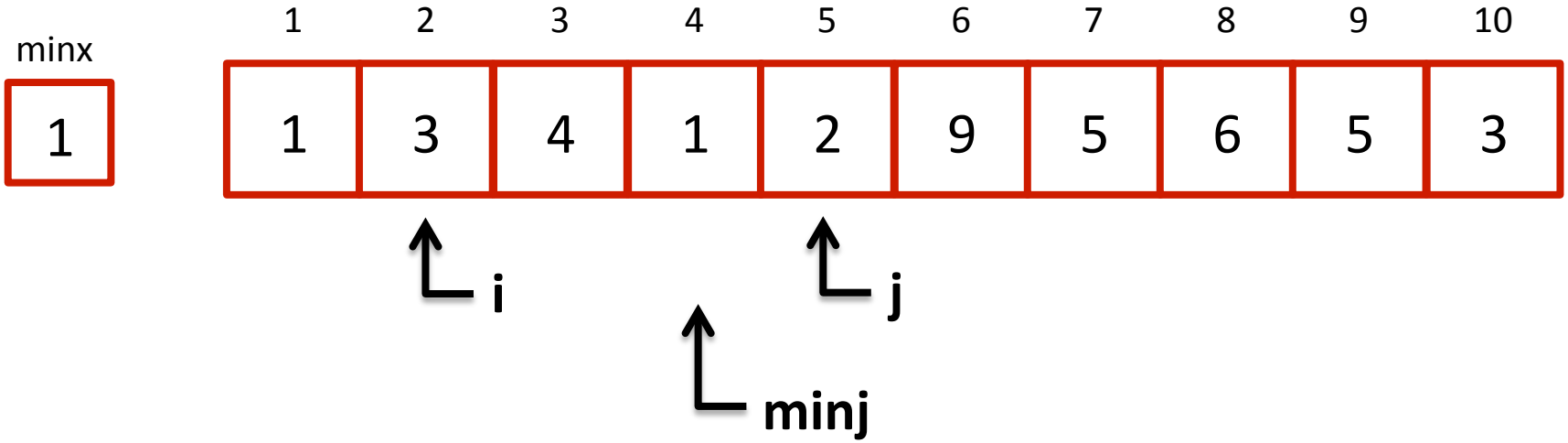

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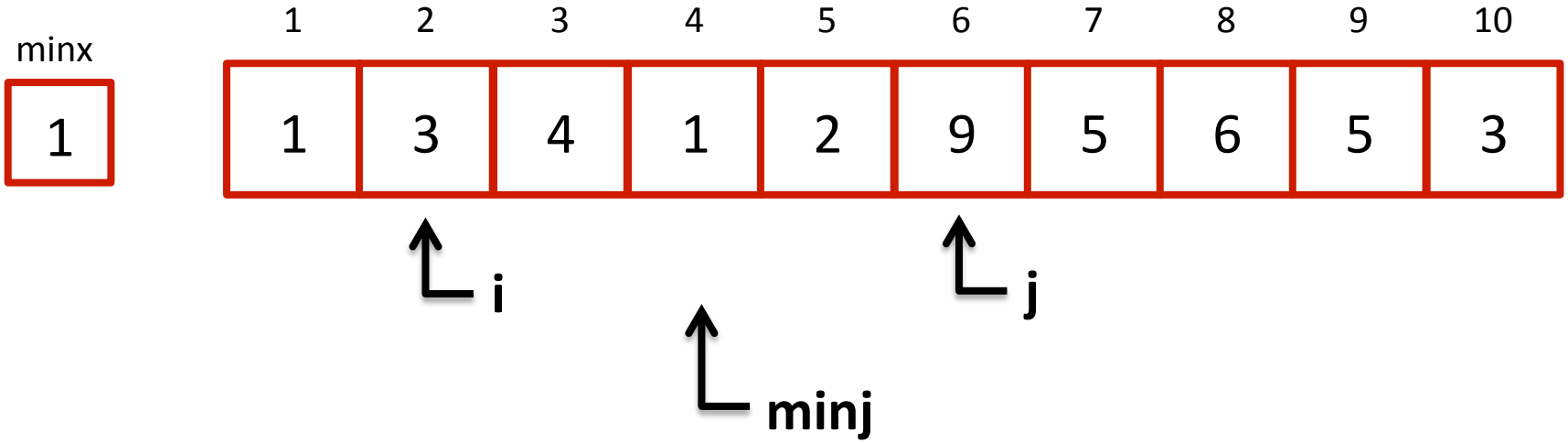

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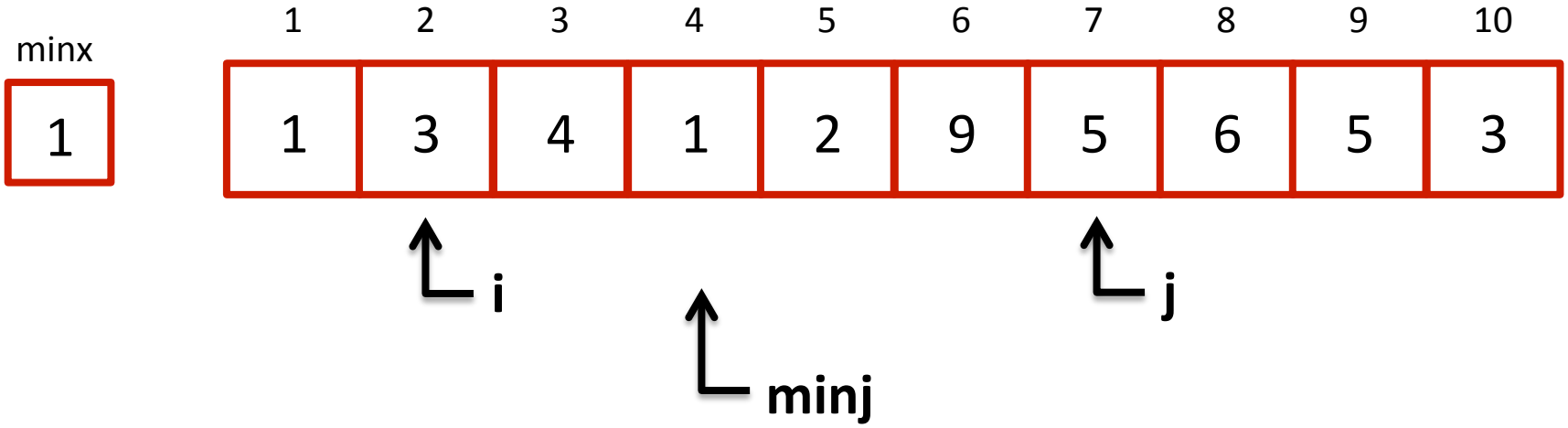

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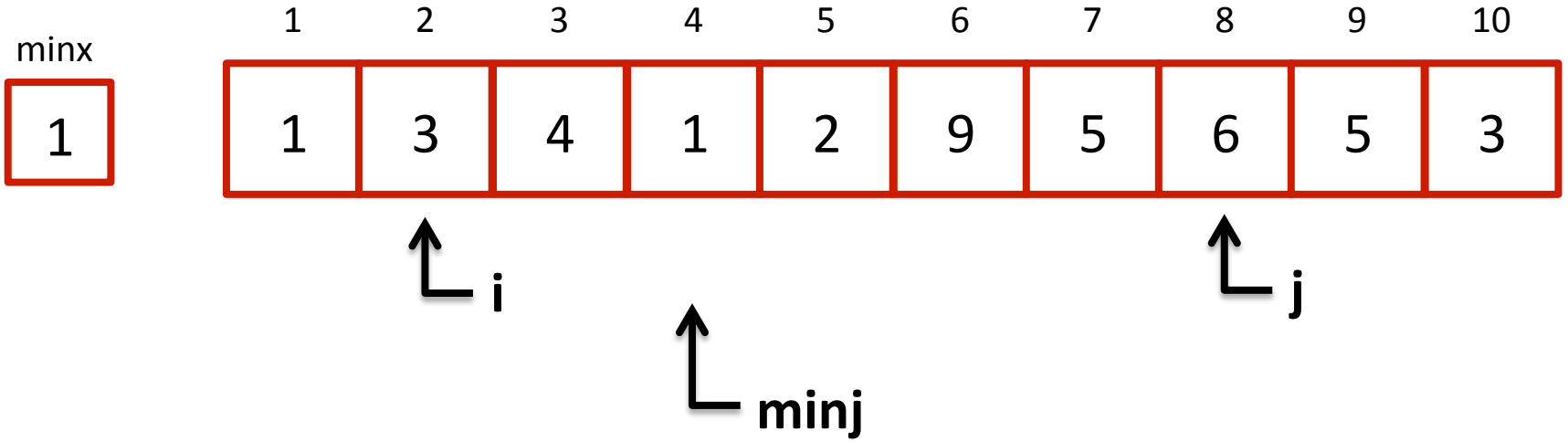

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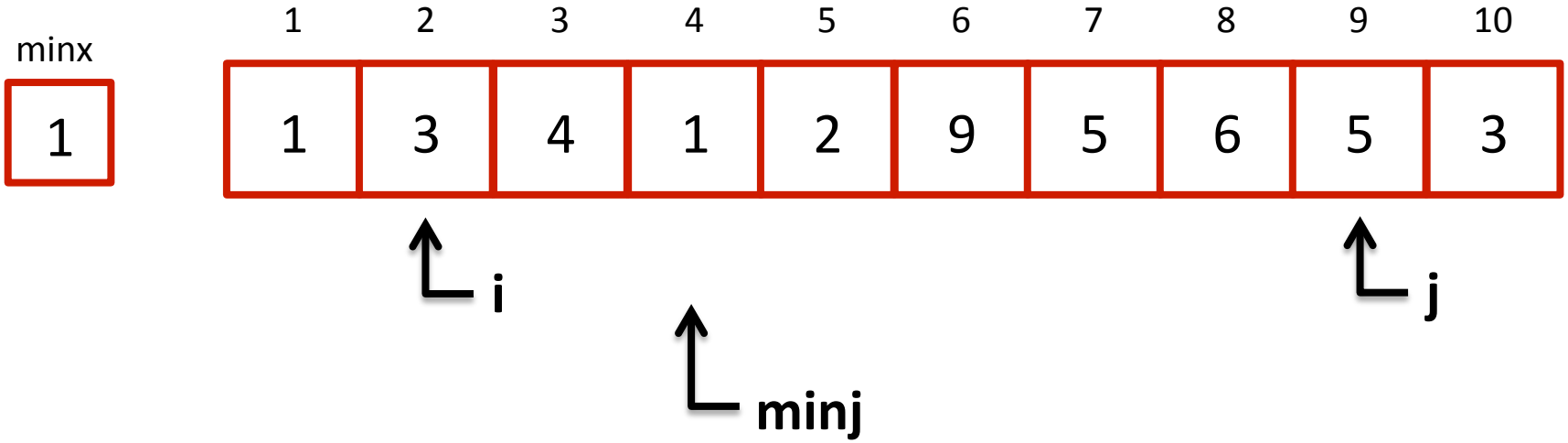

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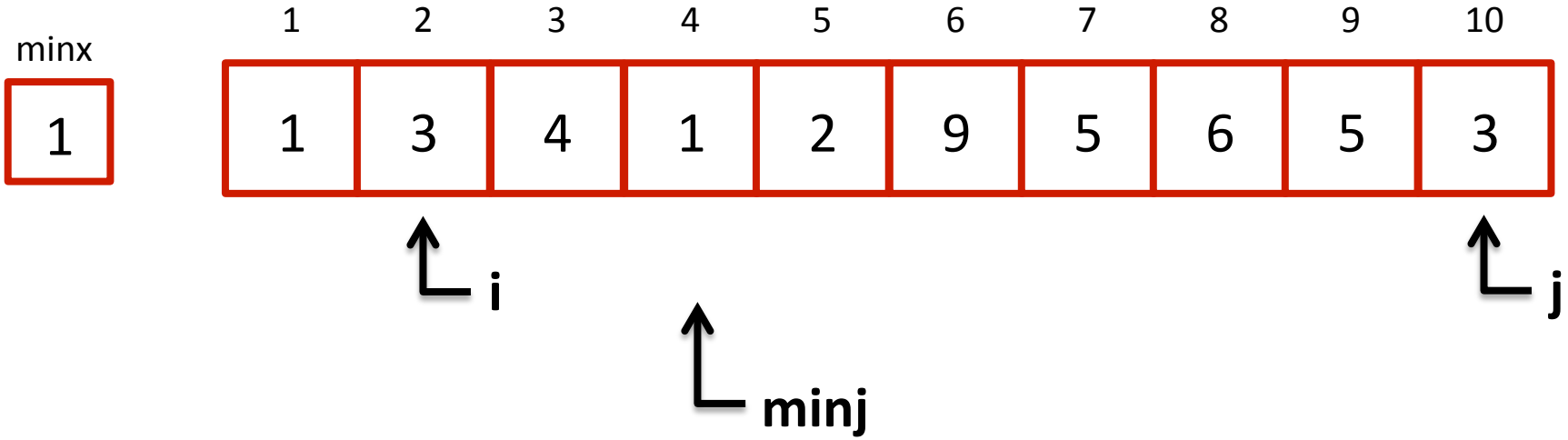

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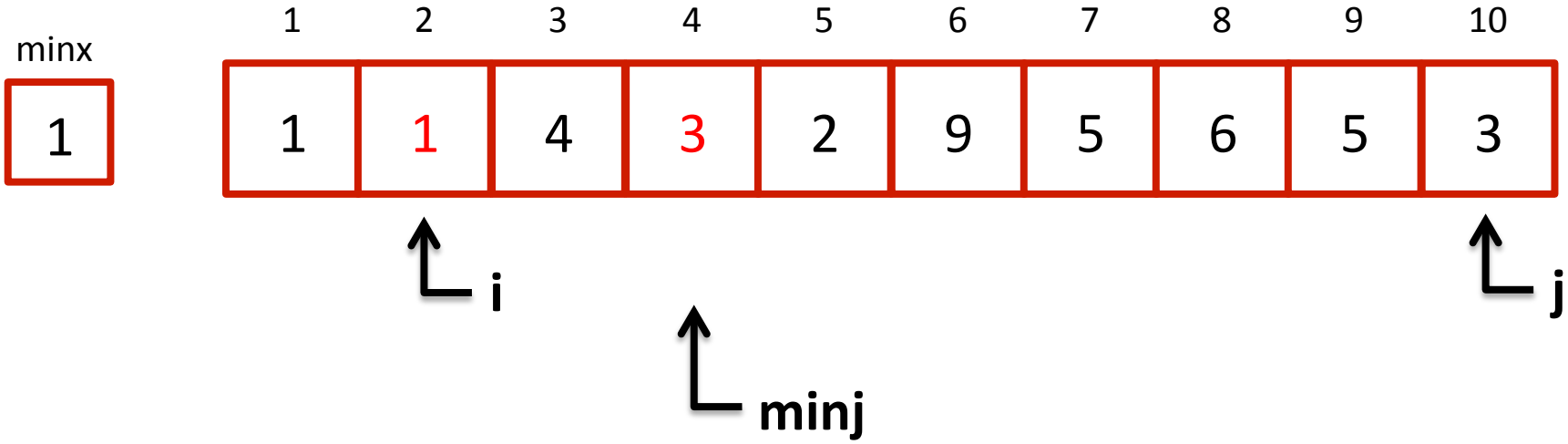

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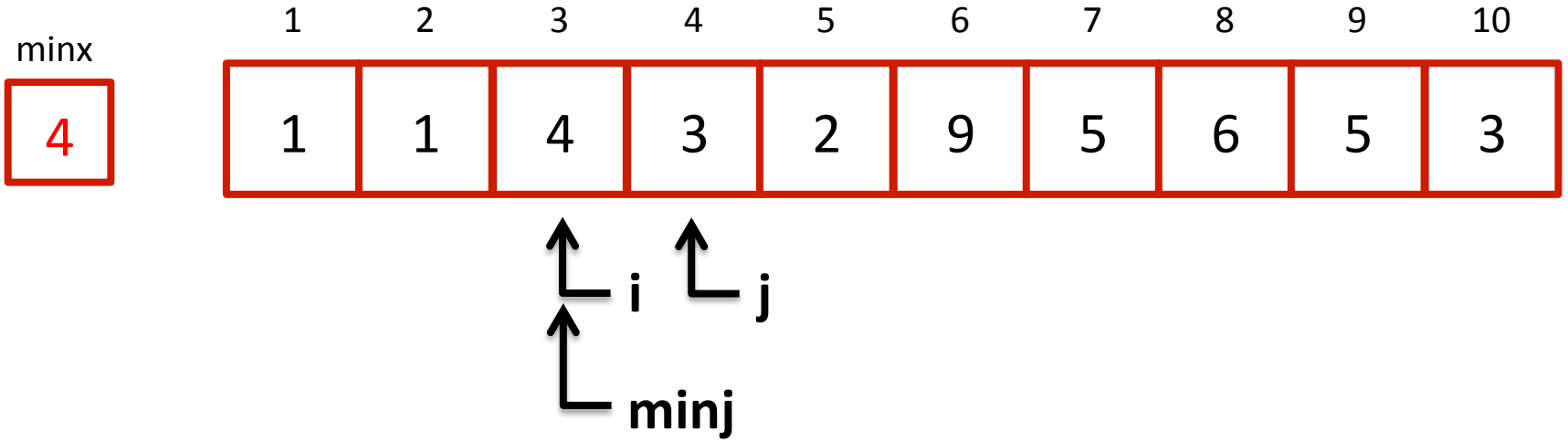

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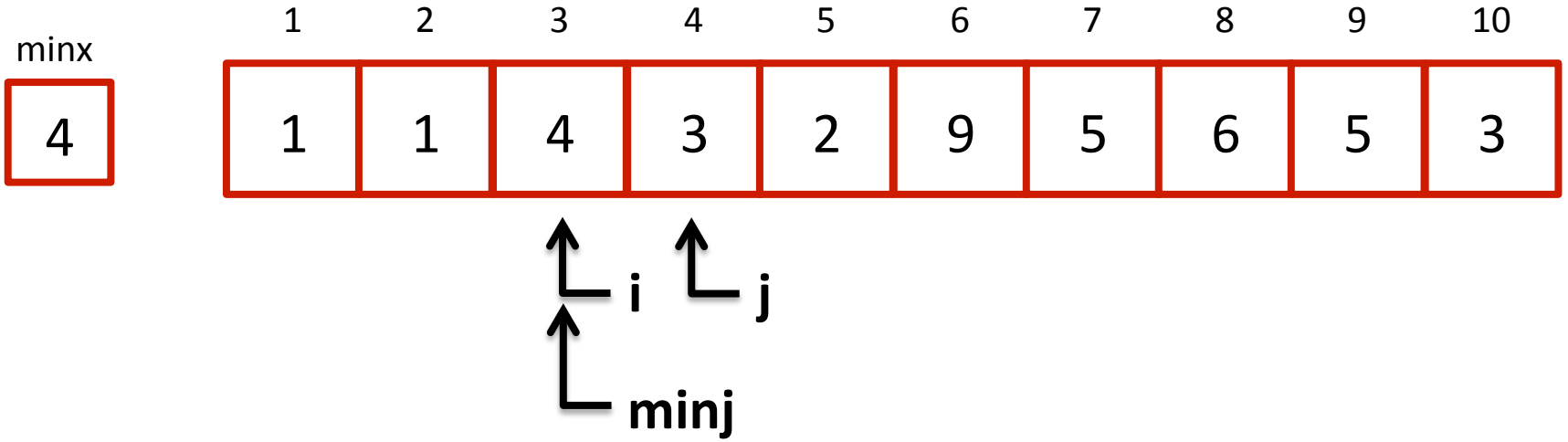

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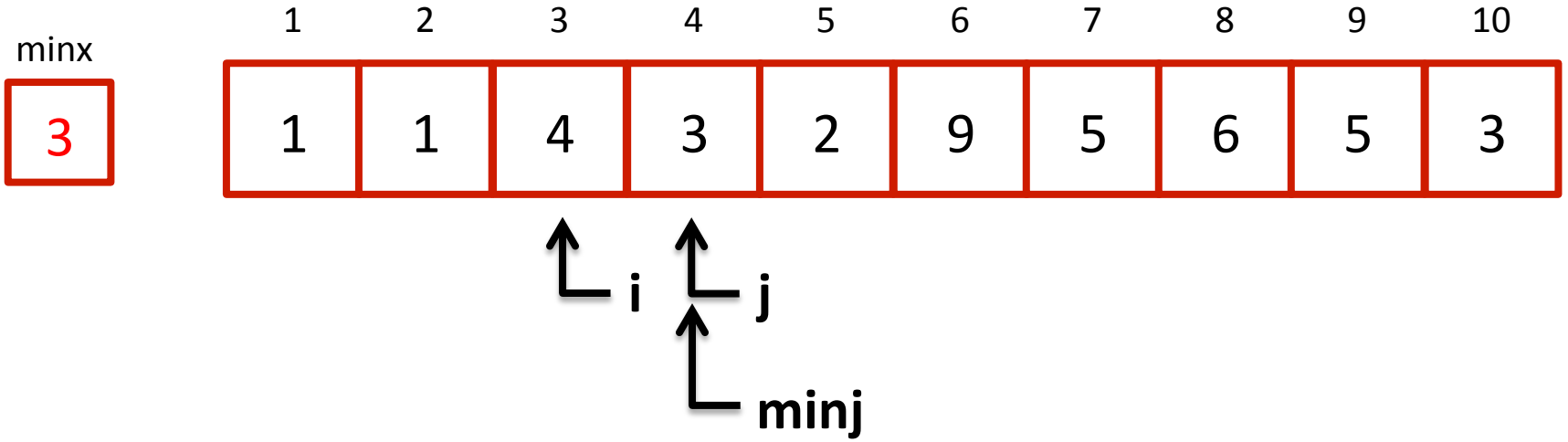

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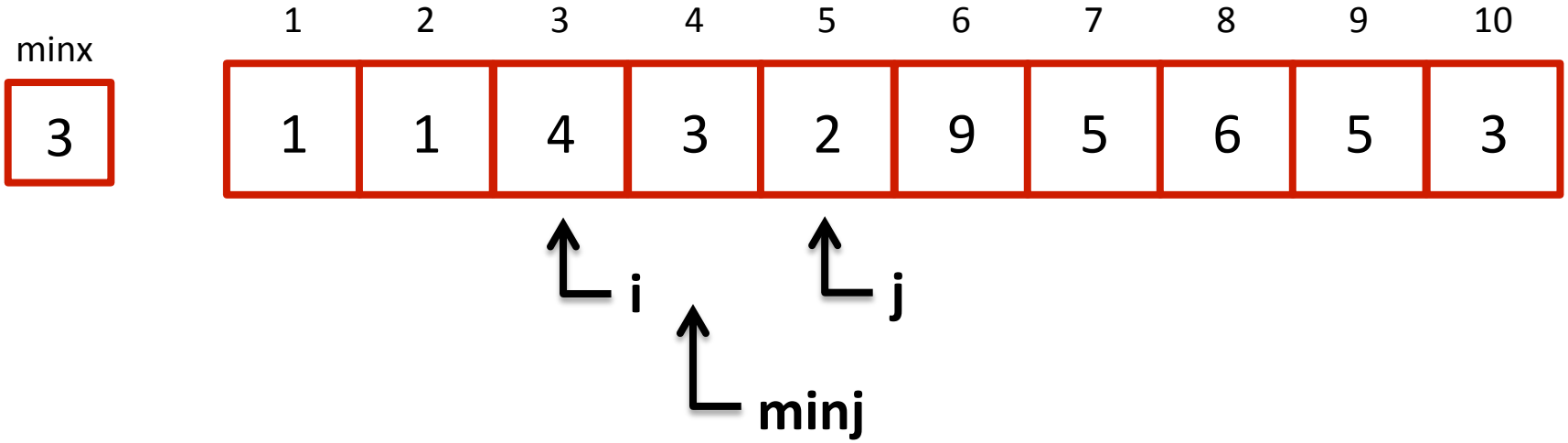

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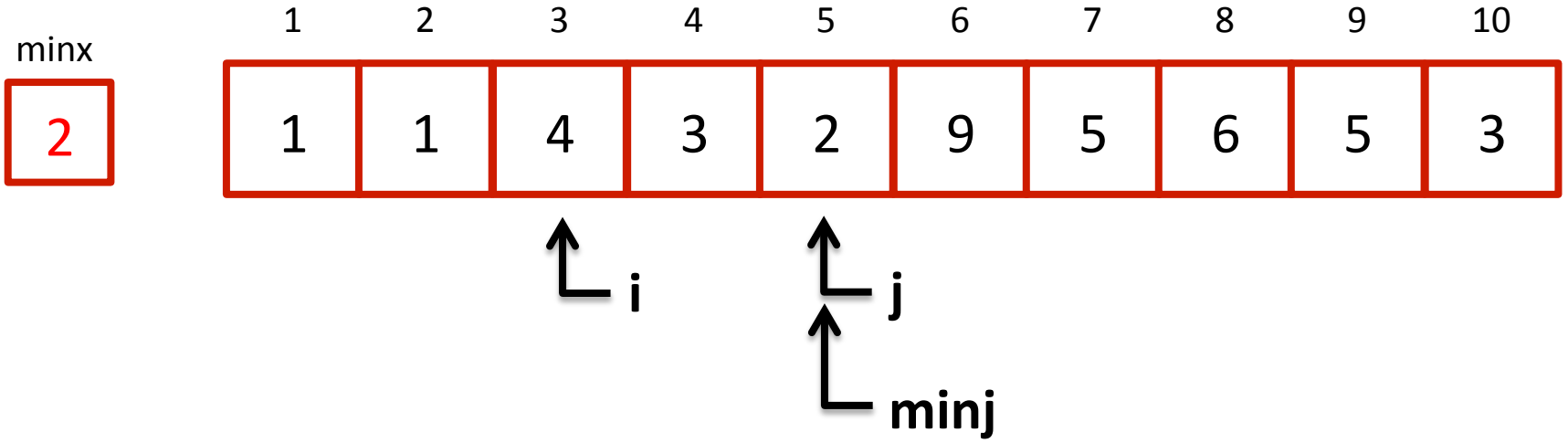

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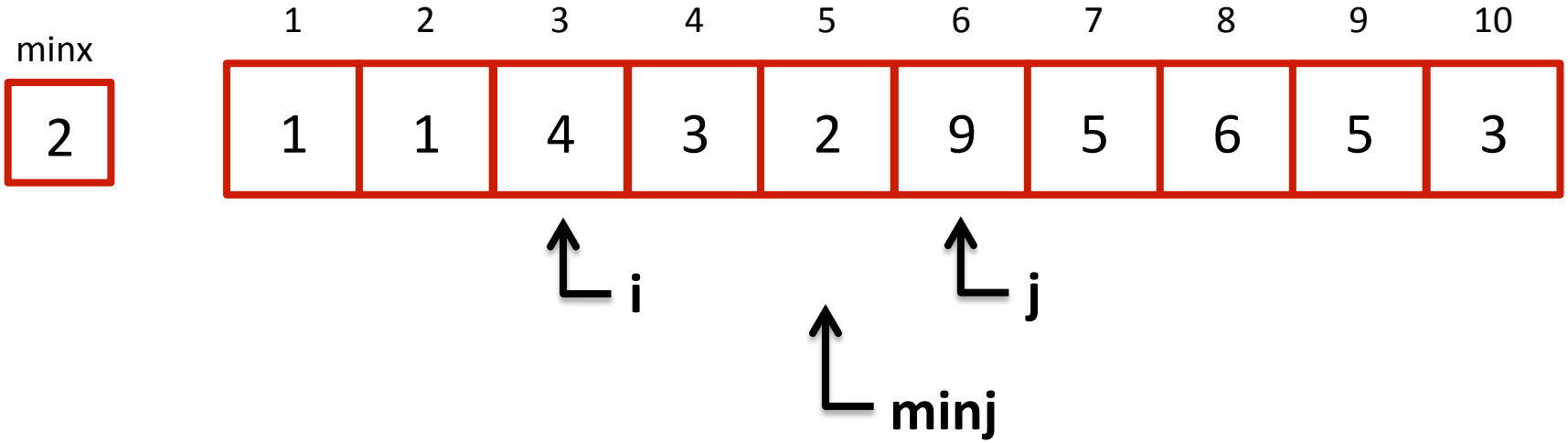

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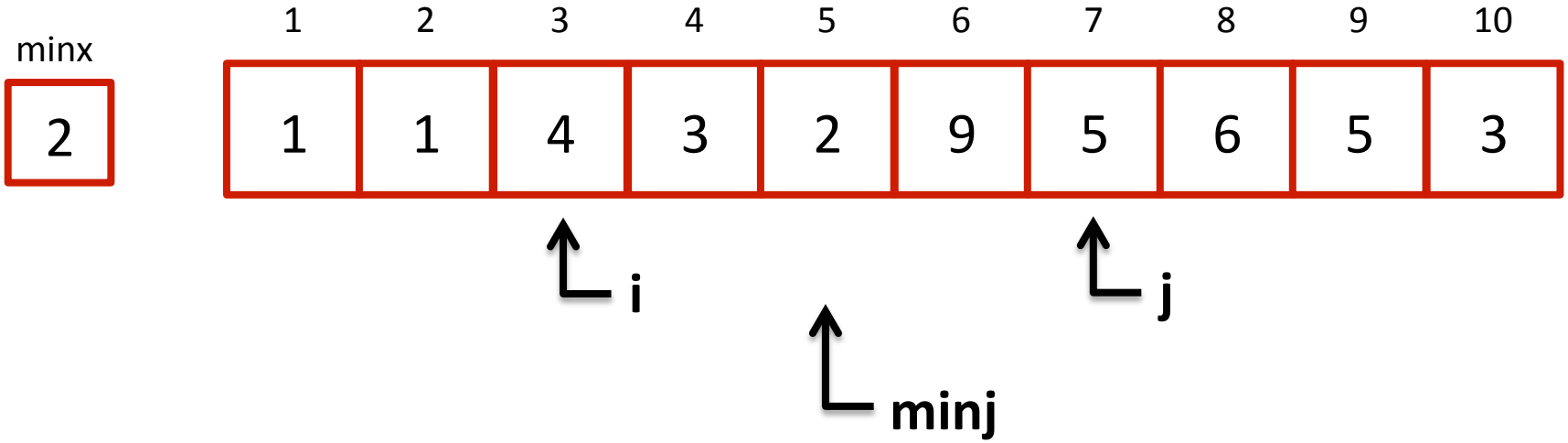

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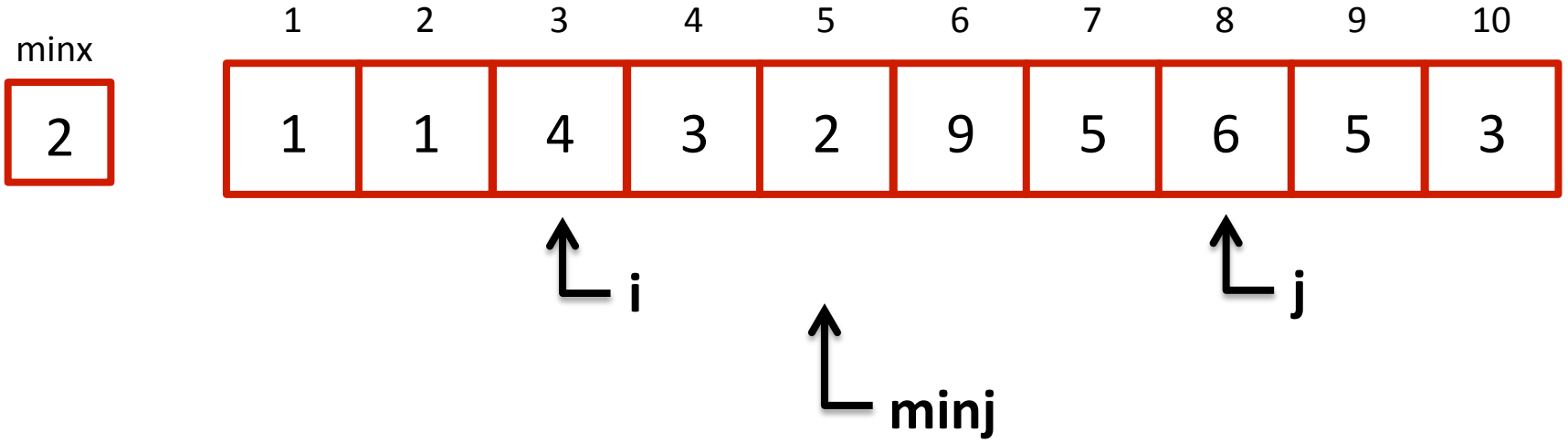

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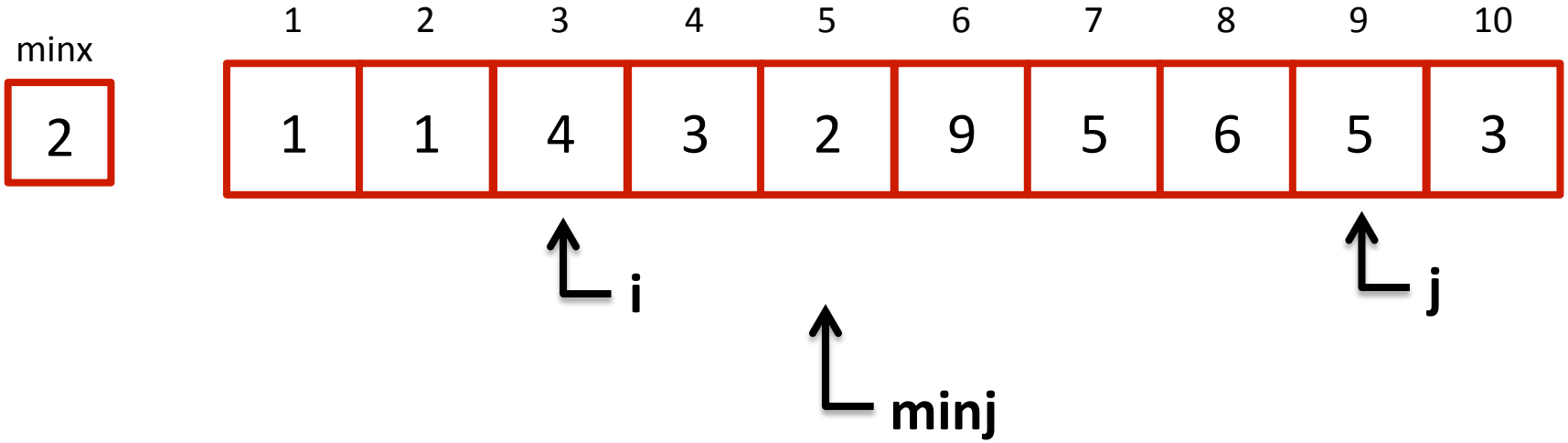

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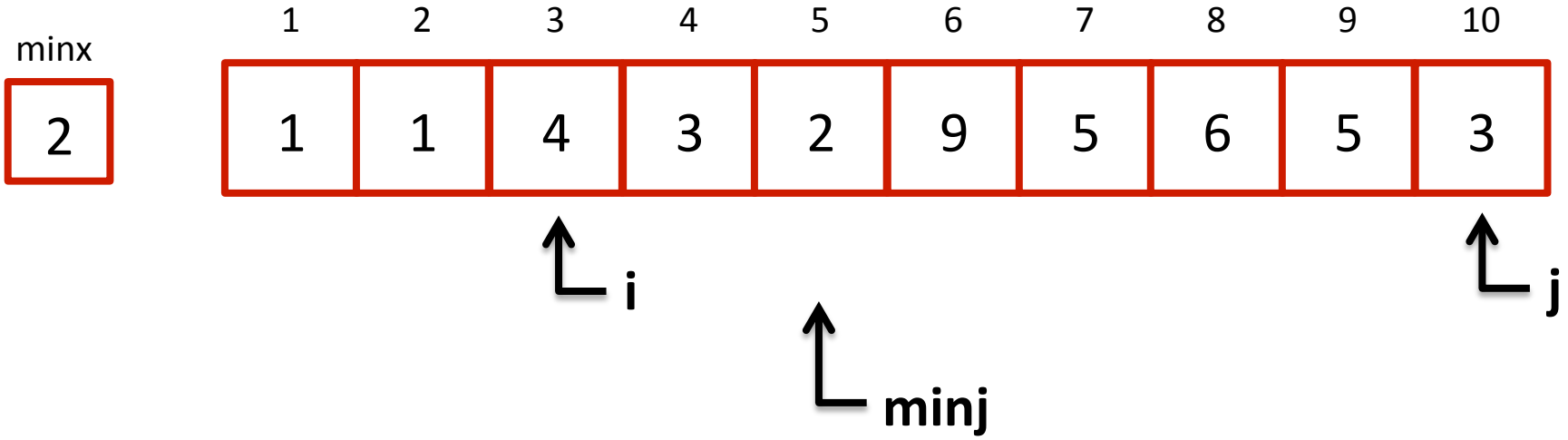

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            end if
        end for;
        T[minj]:=T[i];
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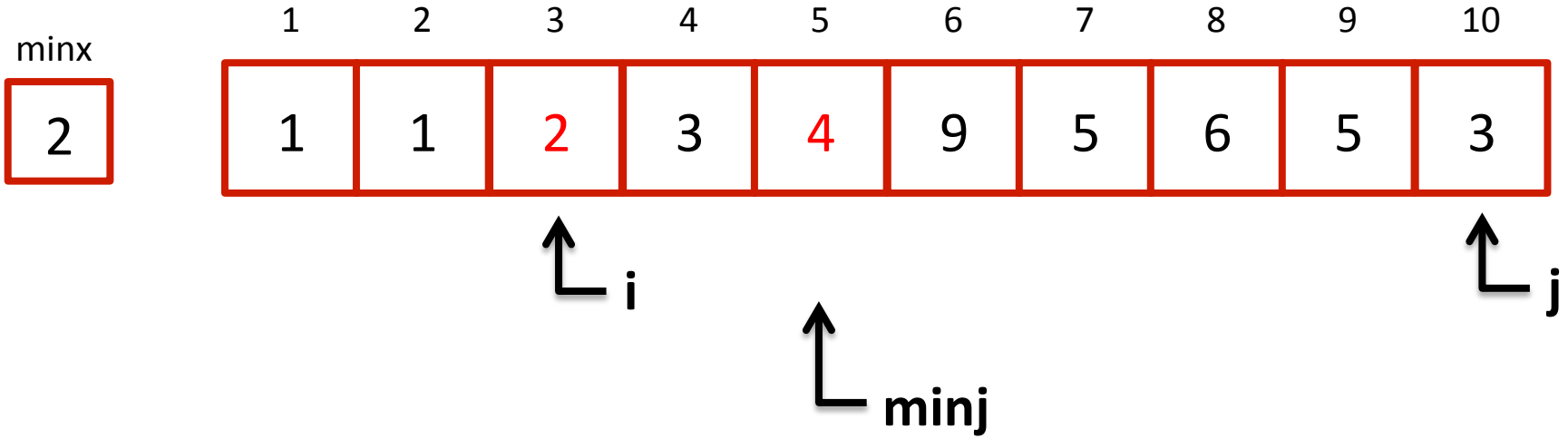

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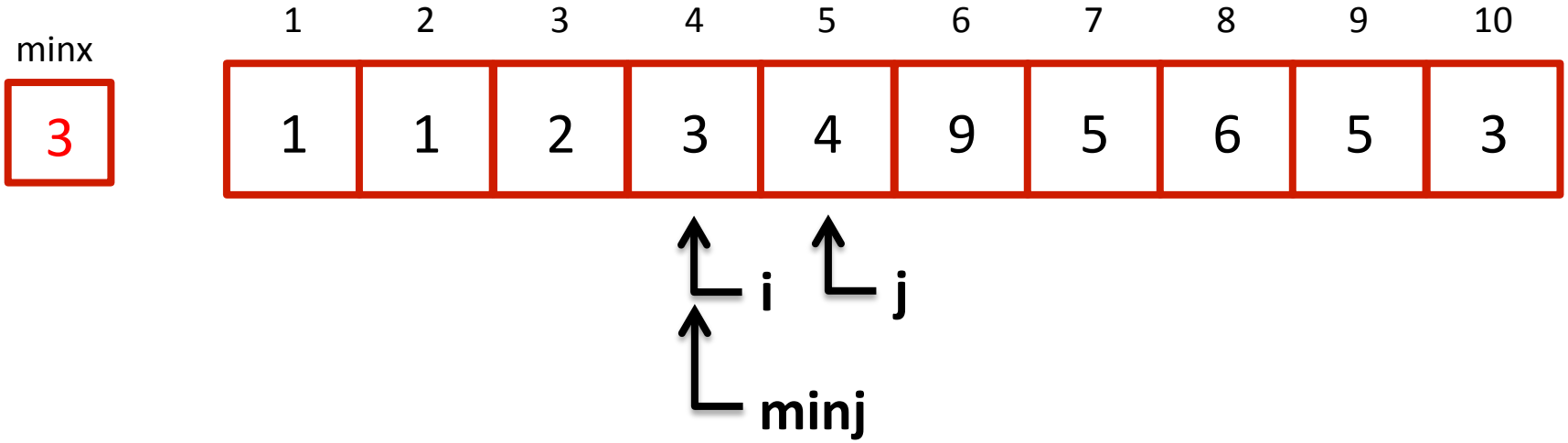

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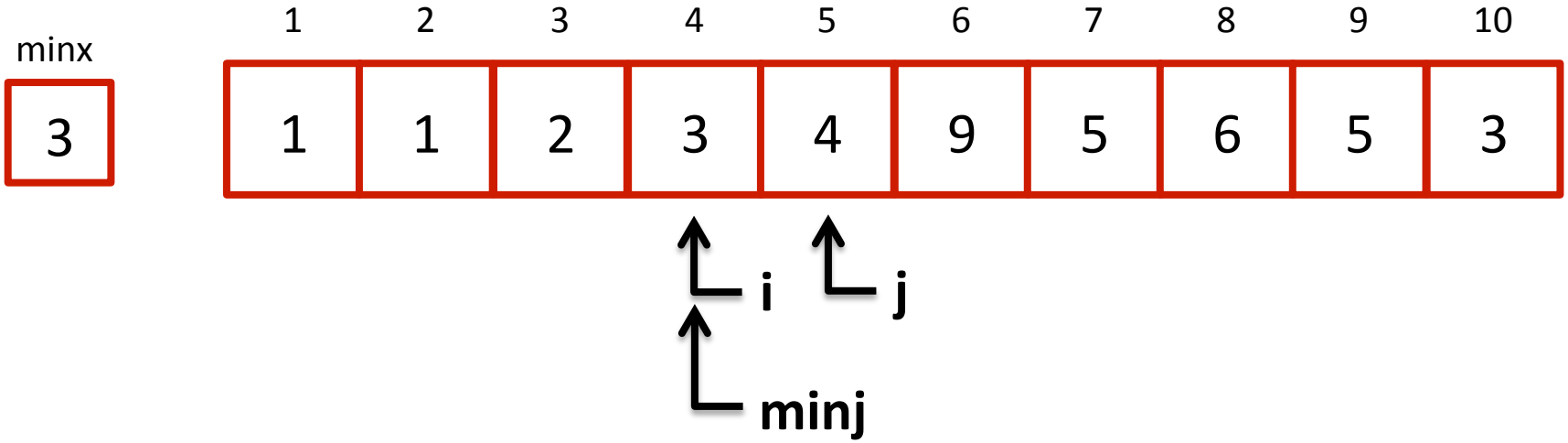

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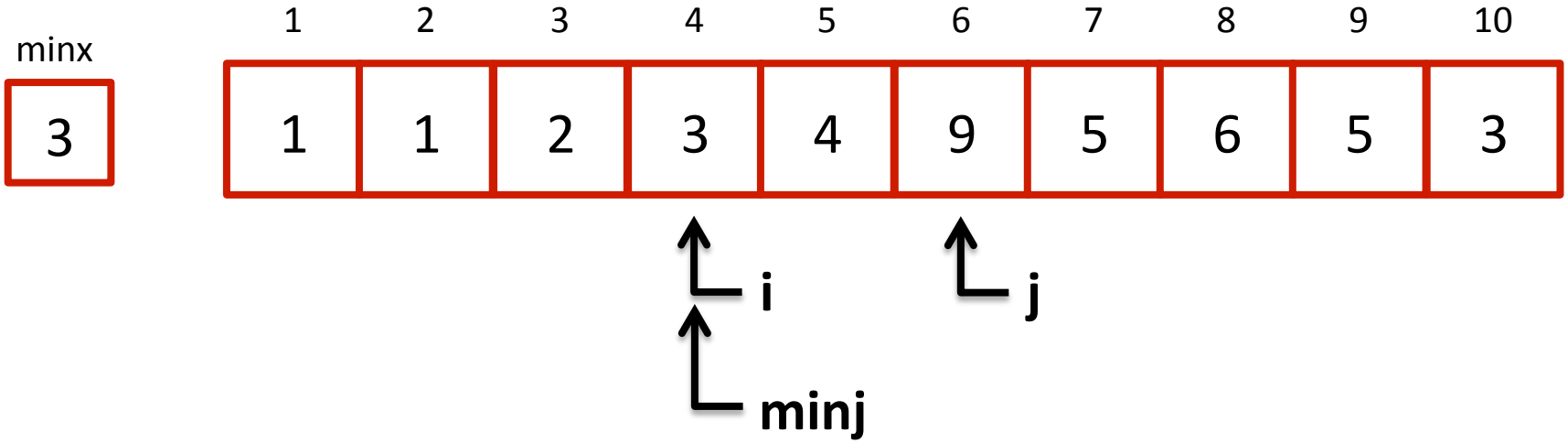

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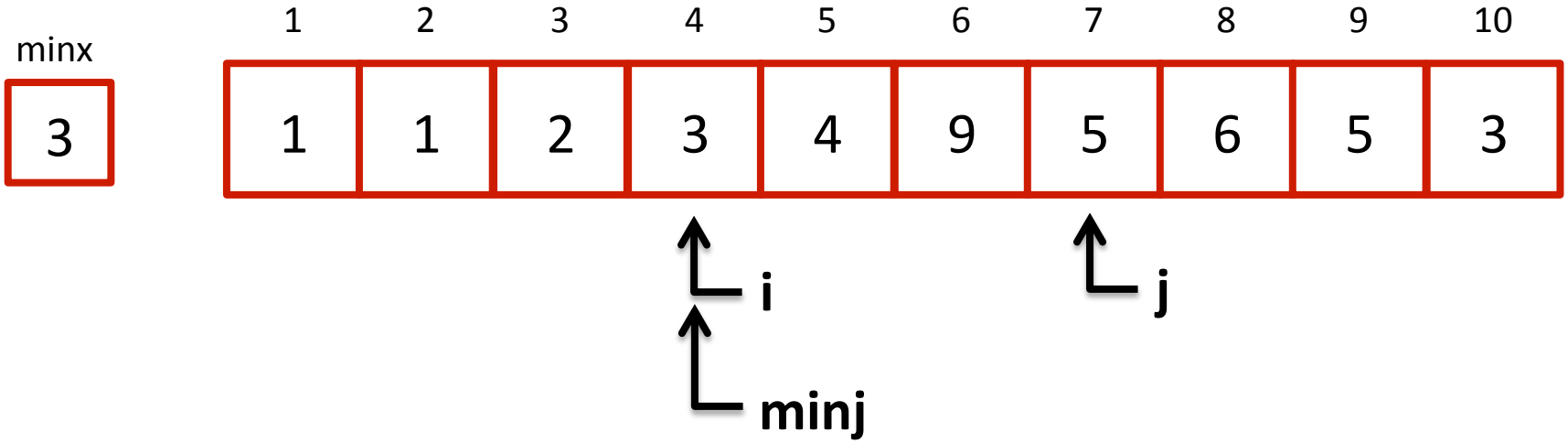

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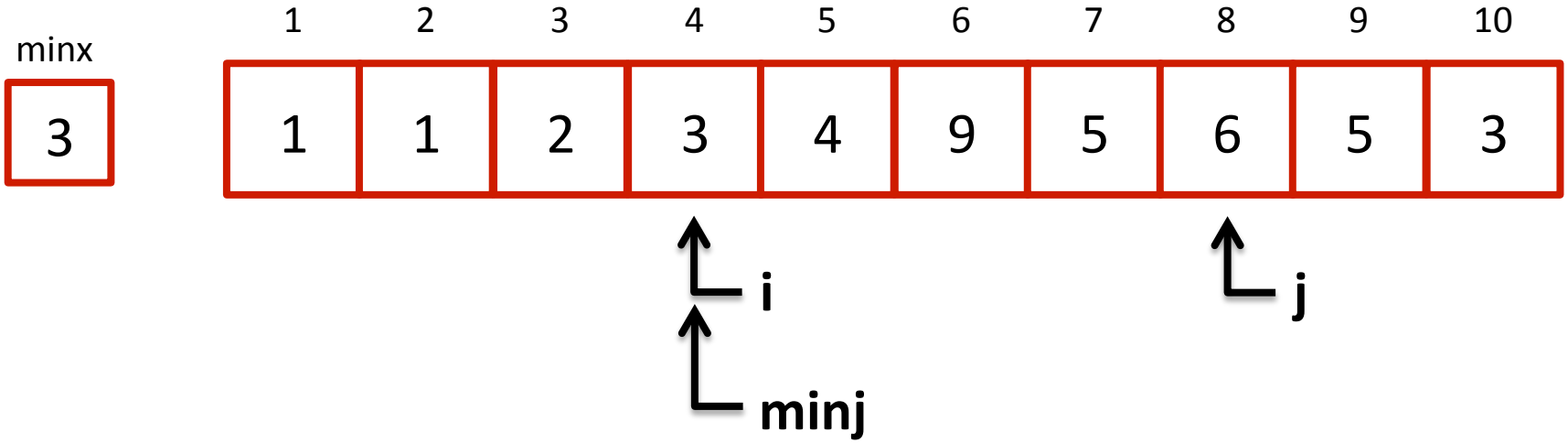

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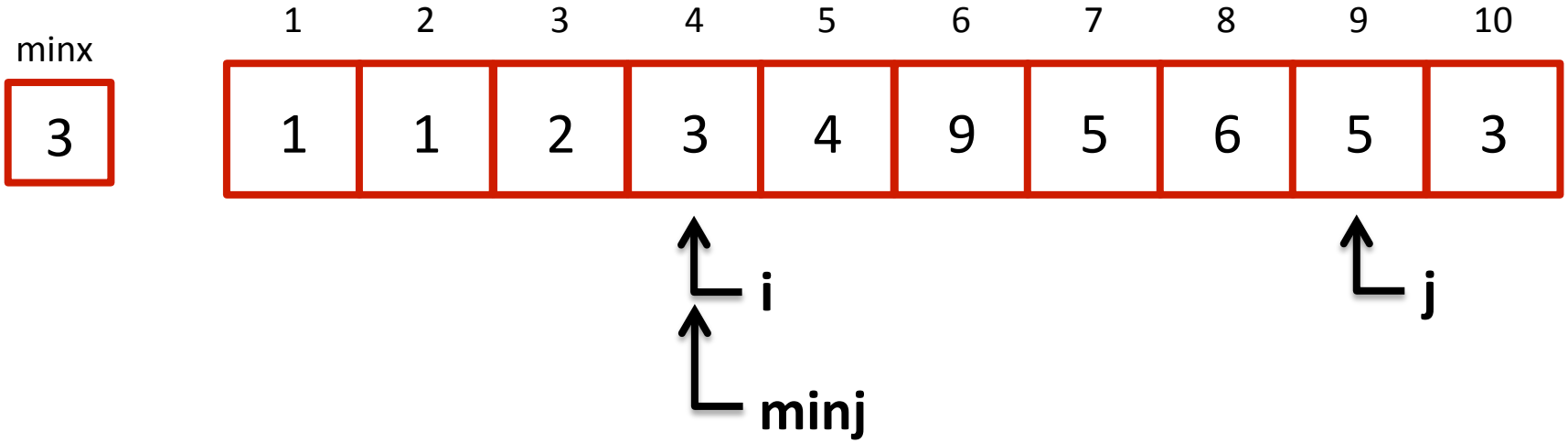

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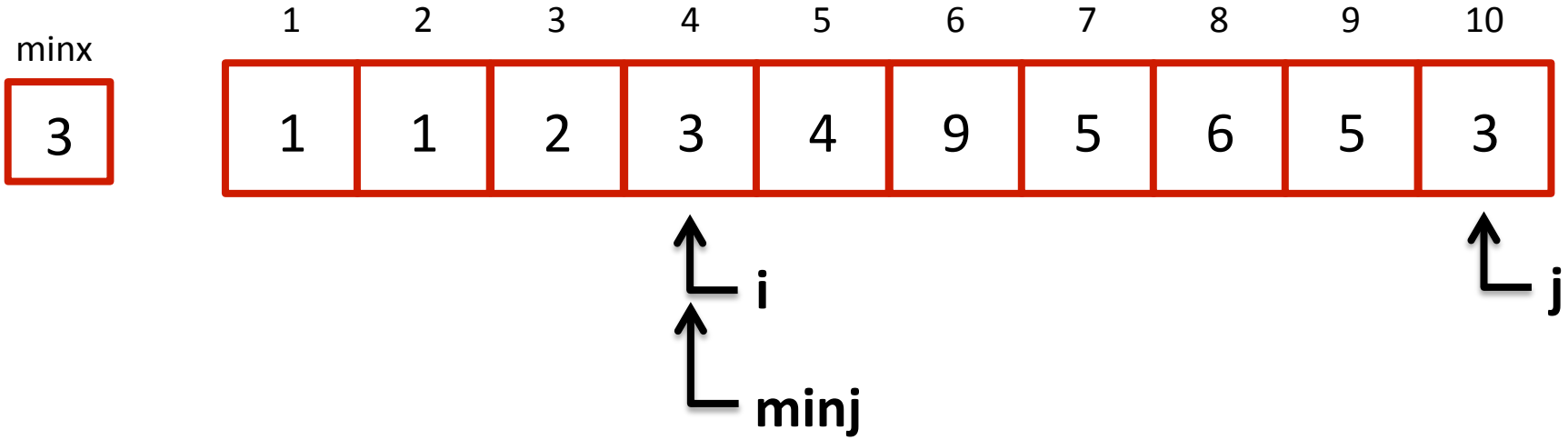

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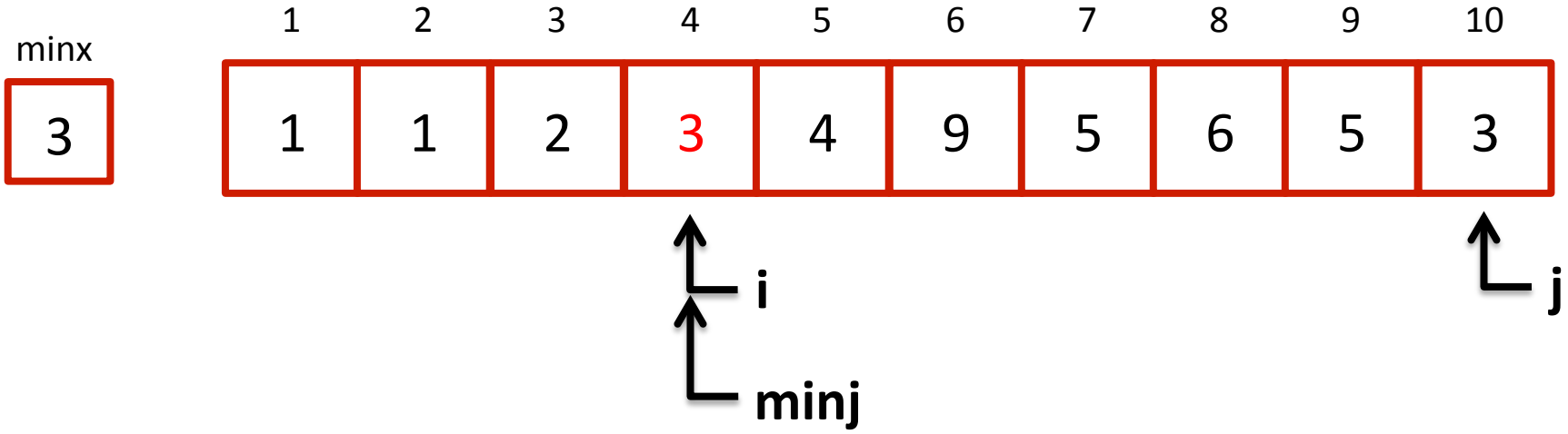

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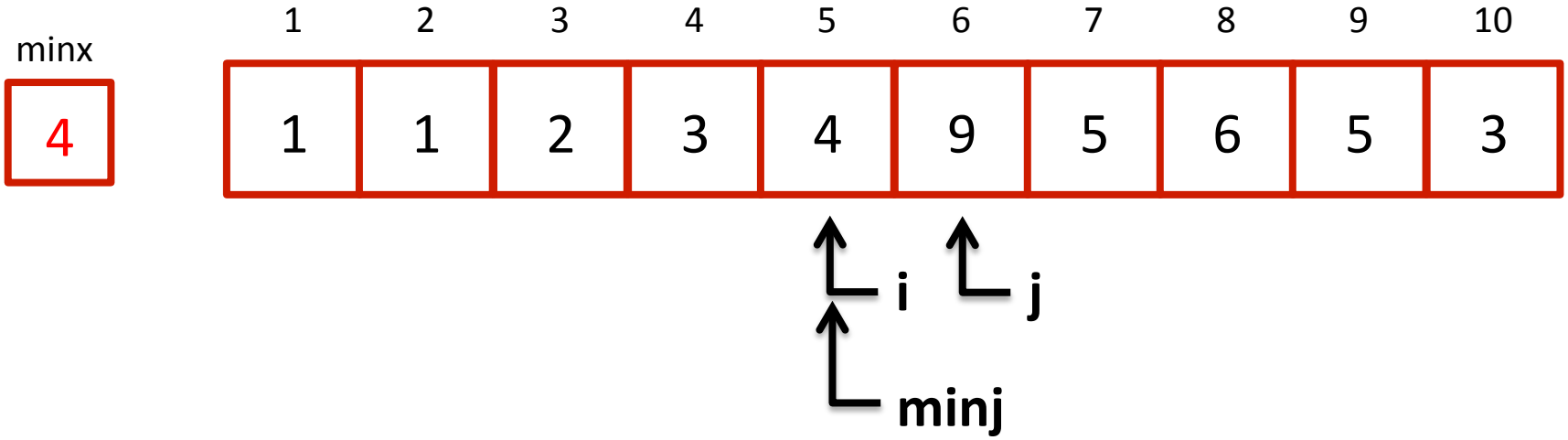

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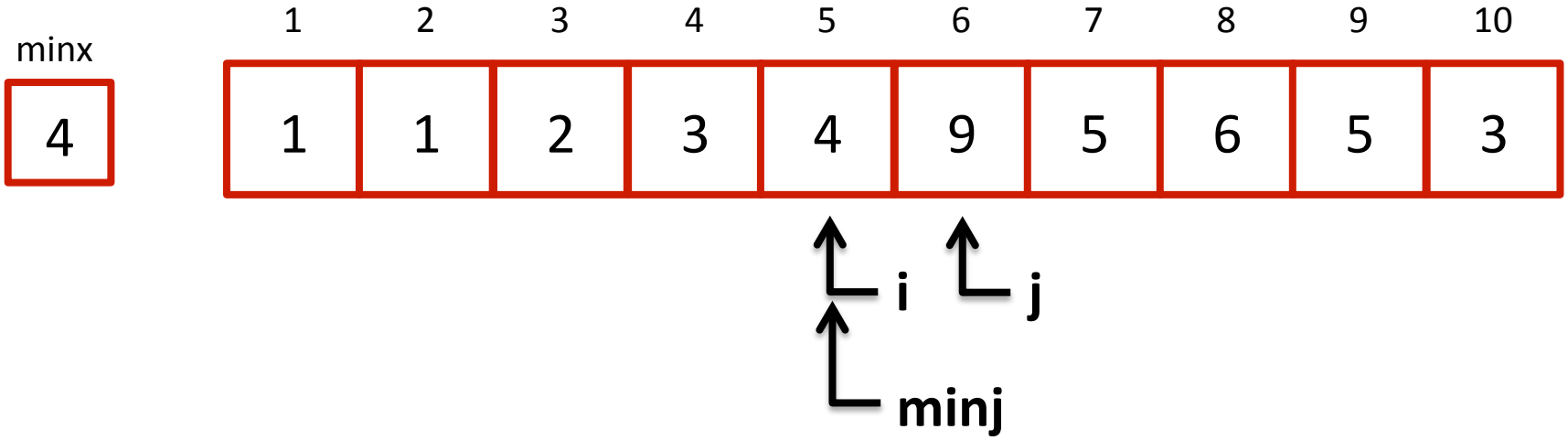

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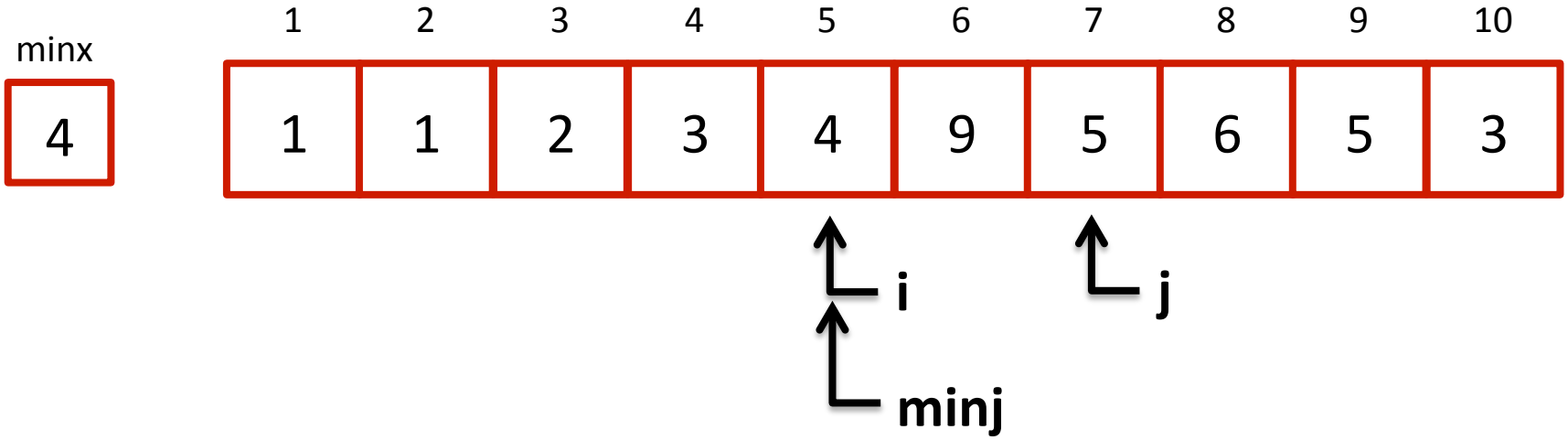

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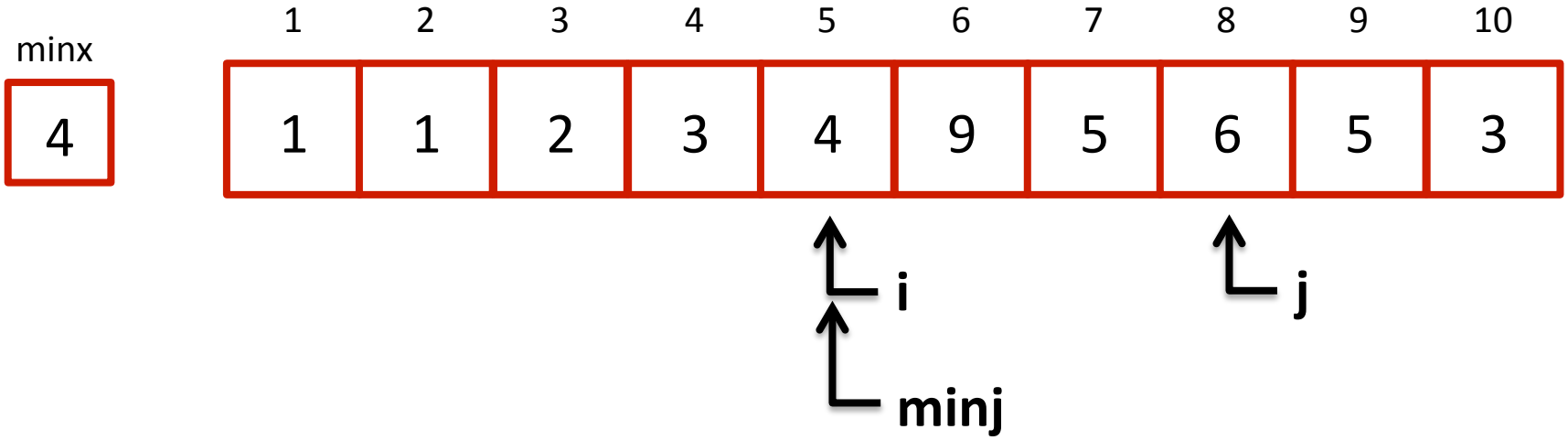

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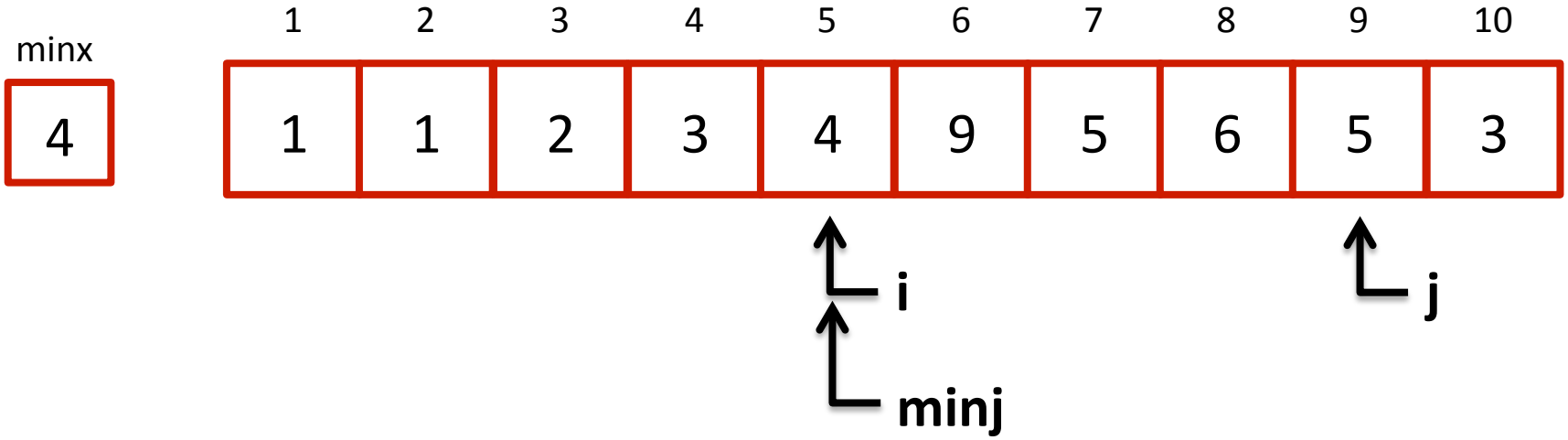

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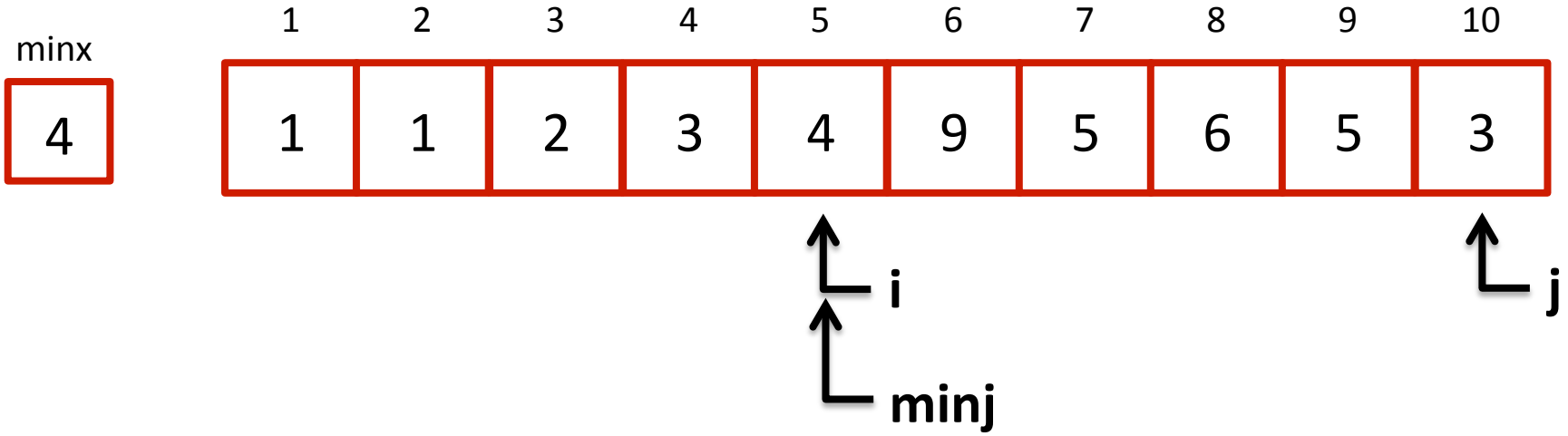

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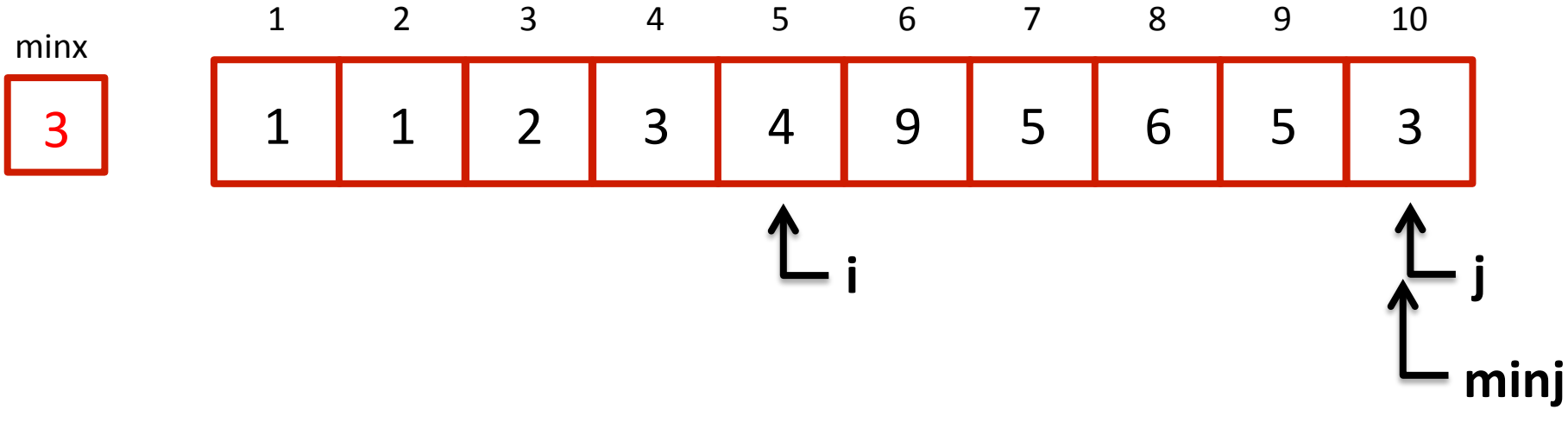

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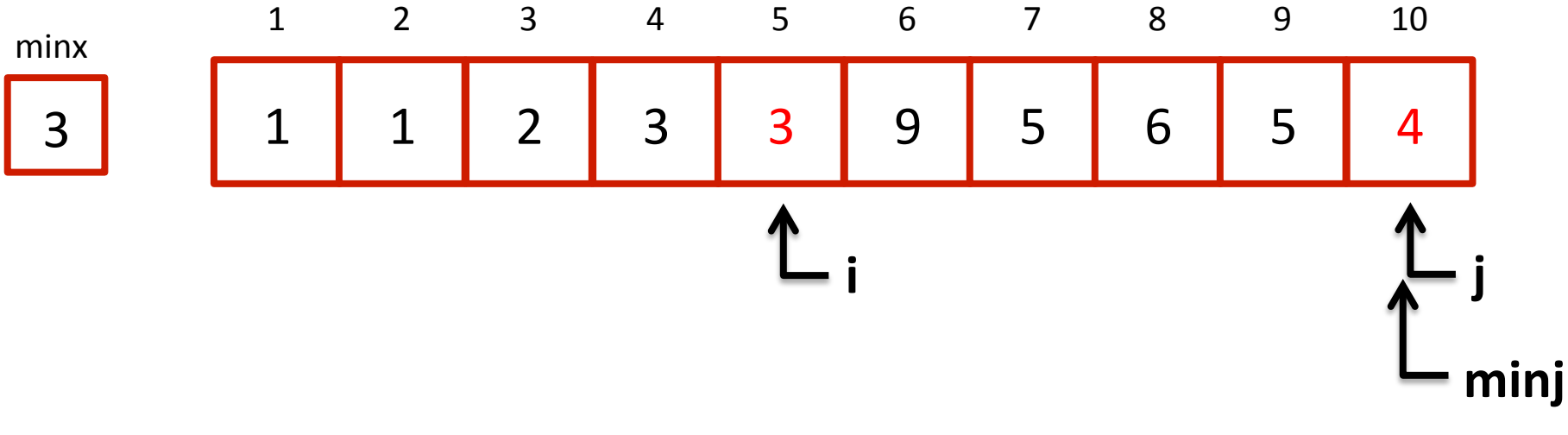

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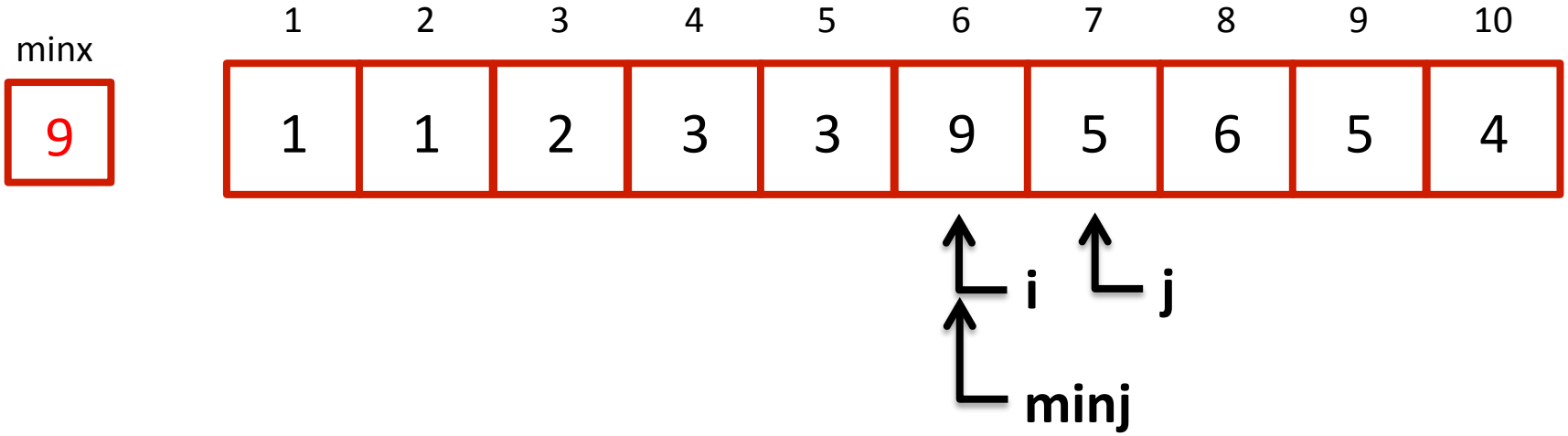

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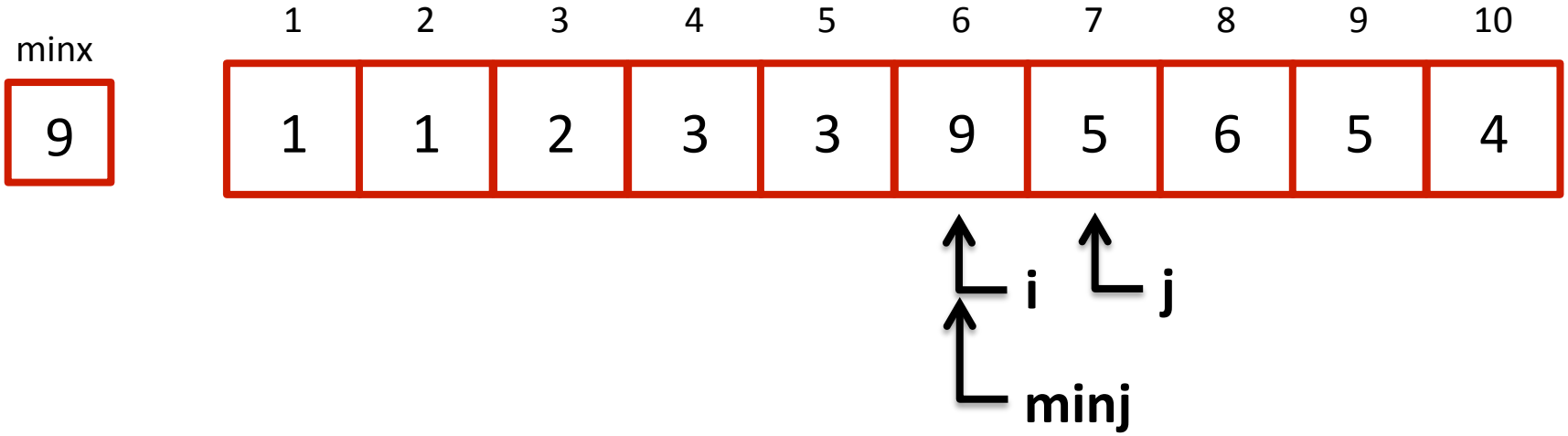

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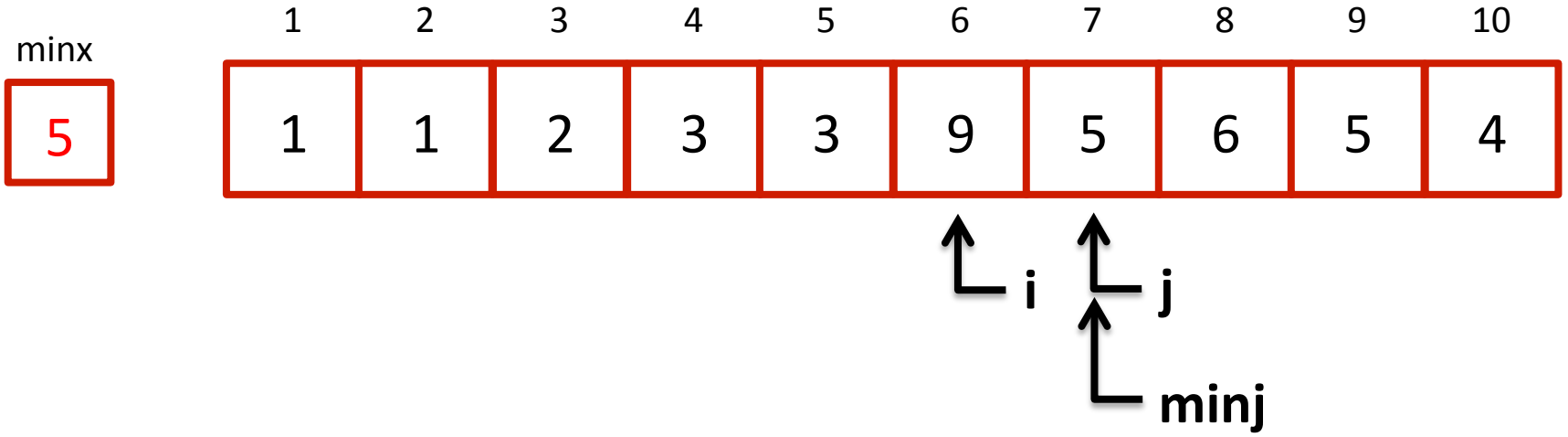

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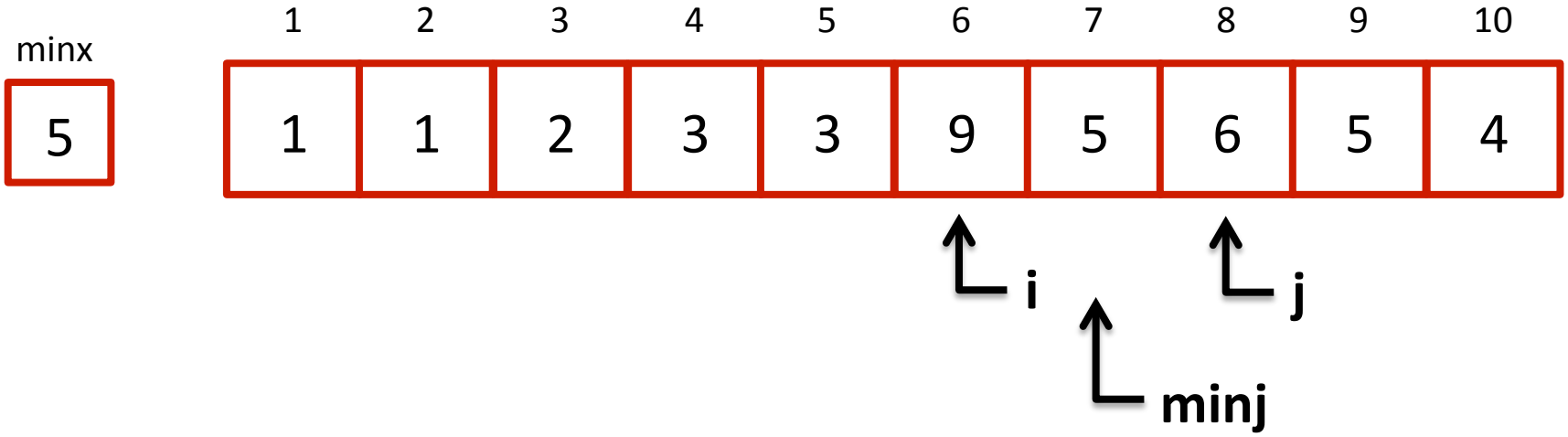

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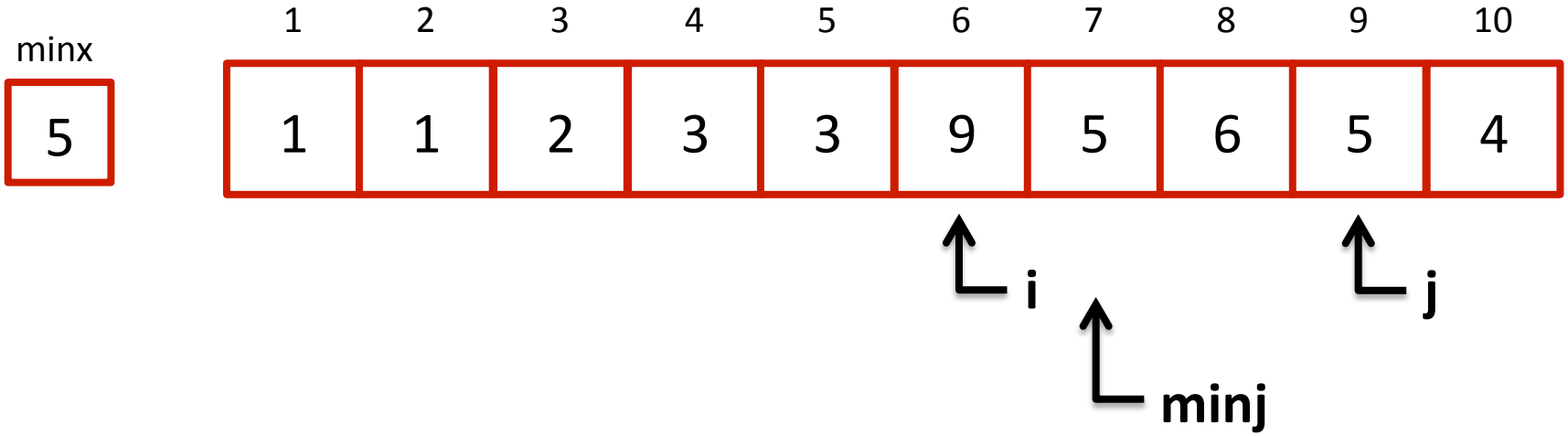

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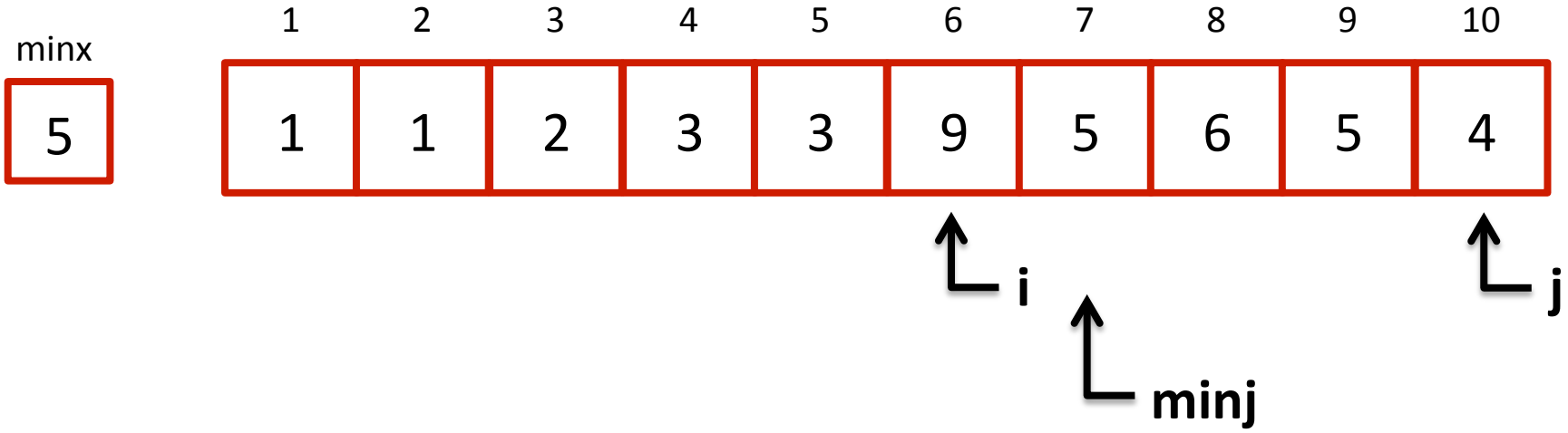

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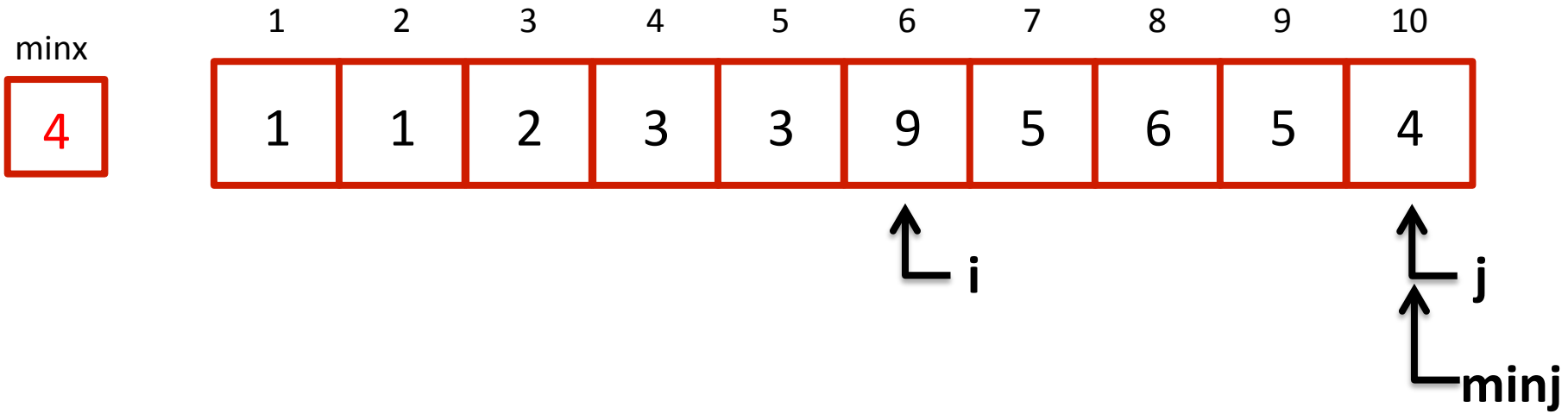

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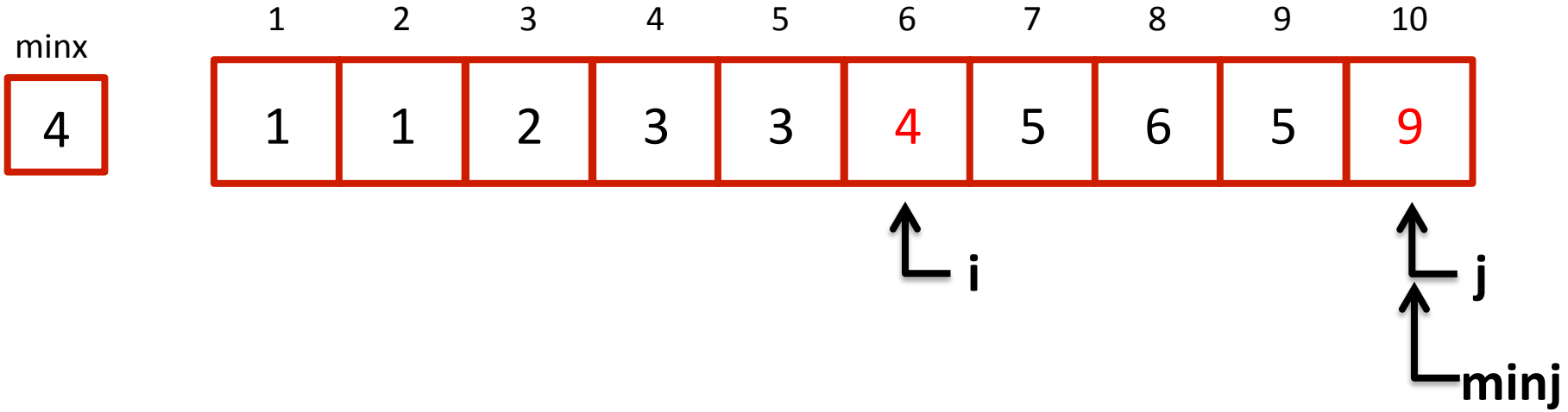

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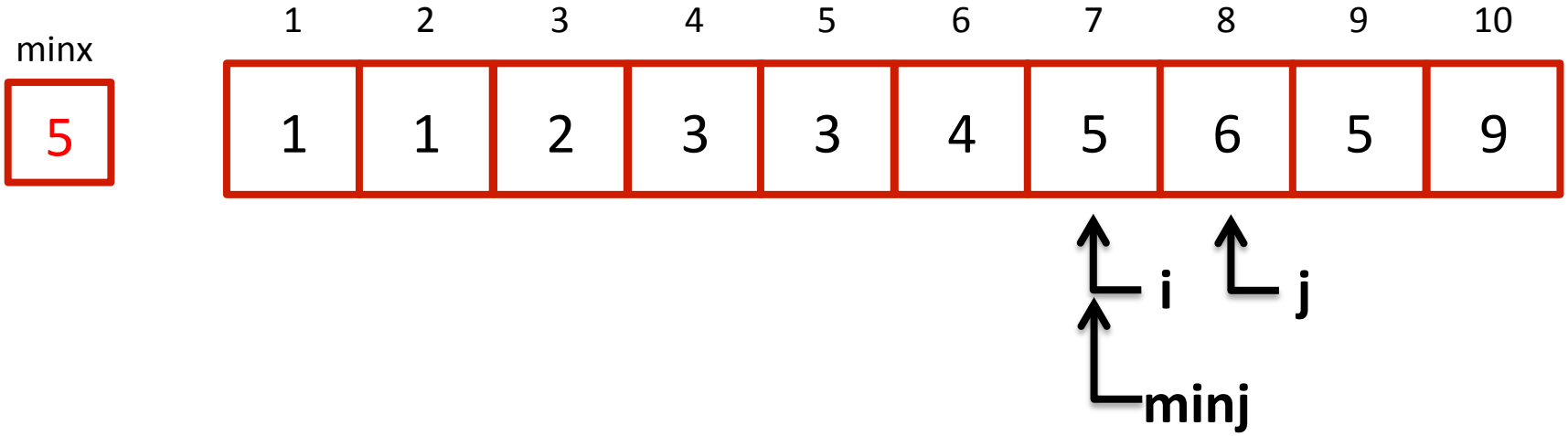

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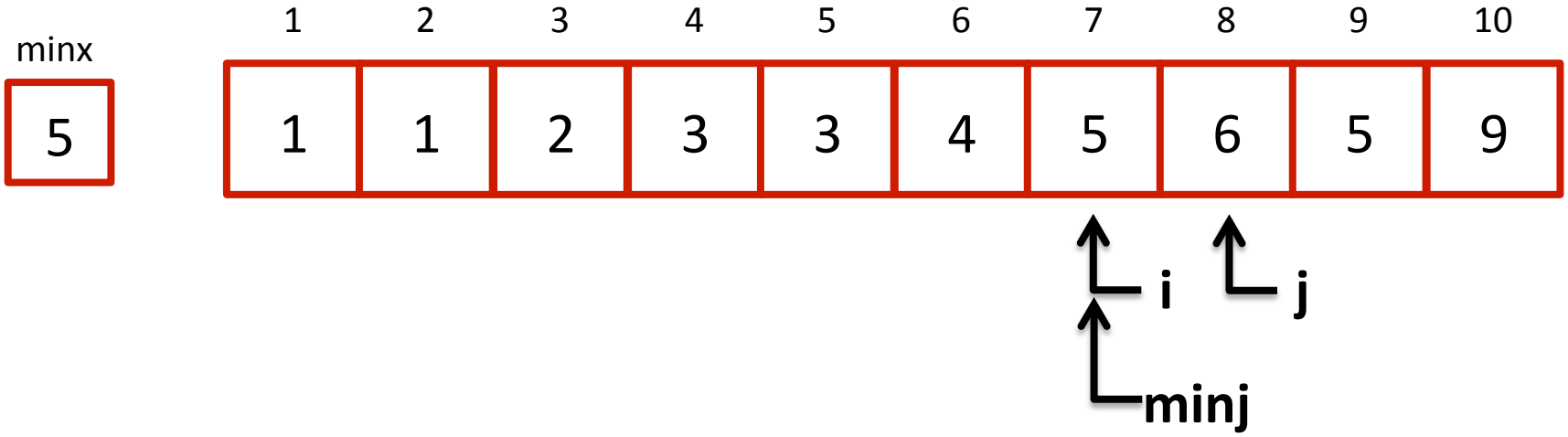

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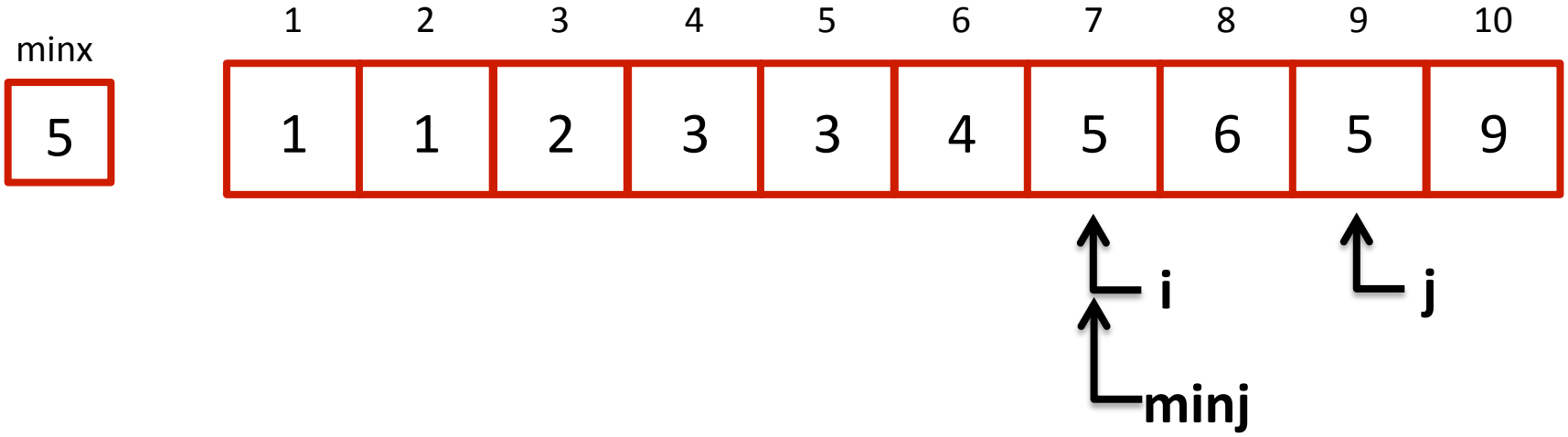

Selection Sort

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procedure Selection Sort (var T[1..n])
    for i:=1 to n-1 do
        minj:=i;
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        for j:=i+1 to n do
            if T[j]<minx then
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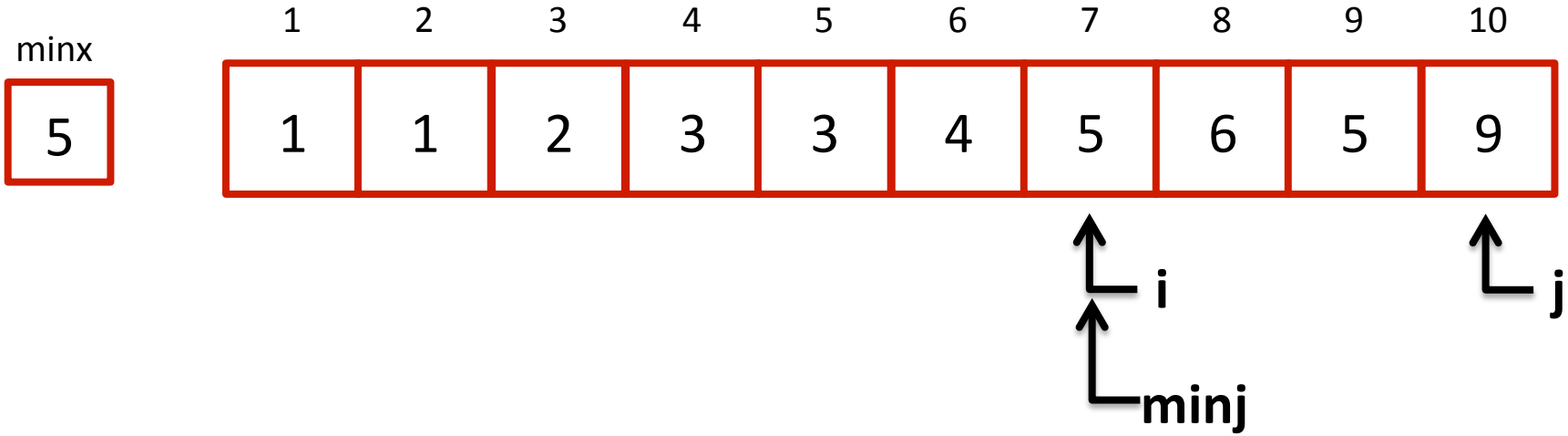
                minx:=T[j]
            end if
        end for;
        T[minj]:=T[i];
        T[i]:=minx
    end for
end procedure
```



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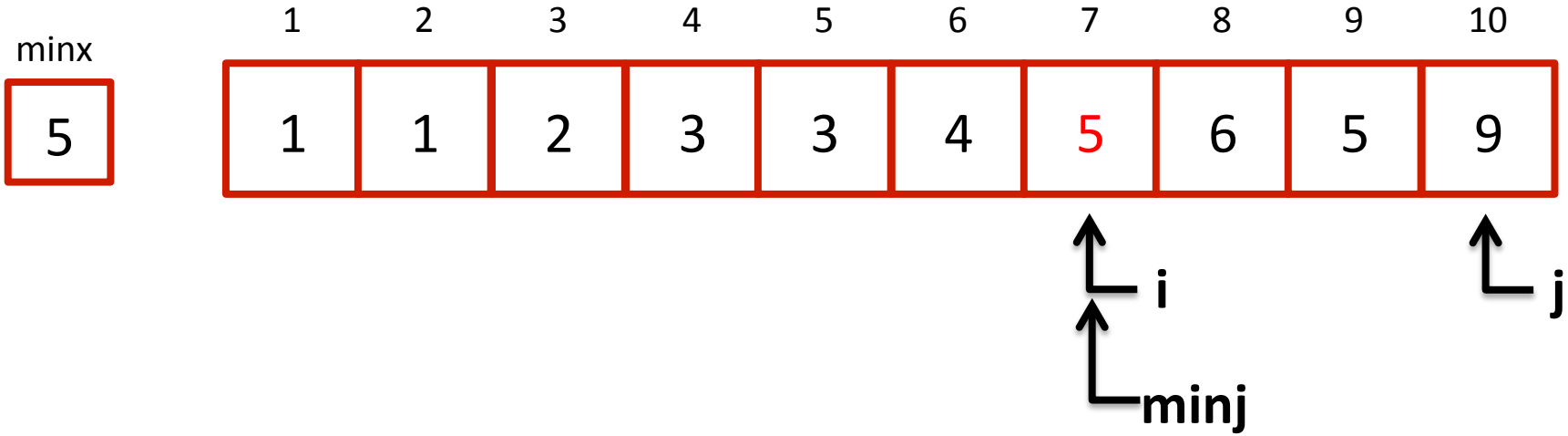

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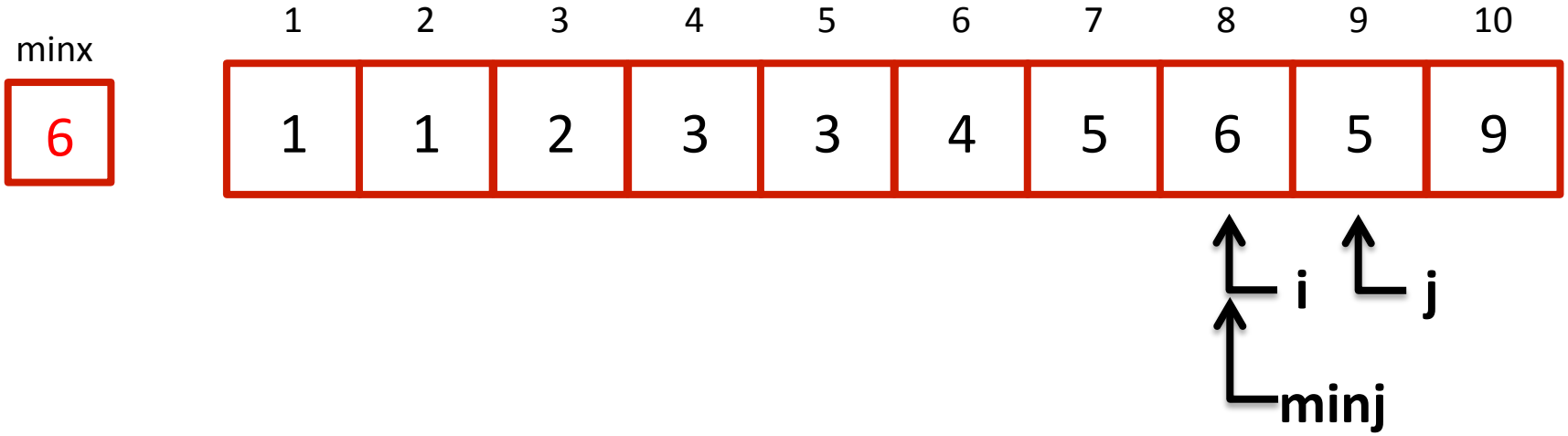

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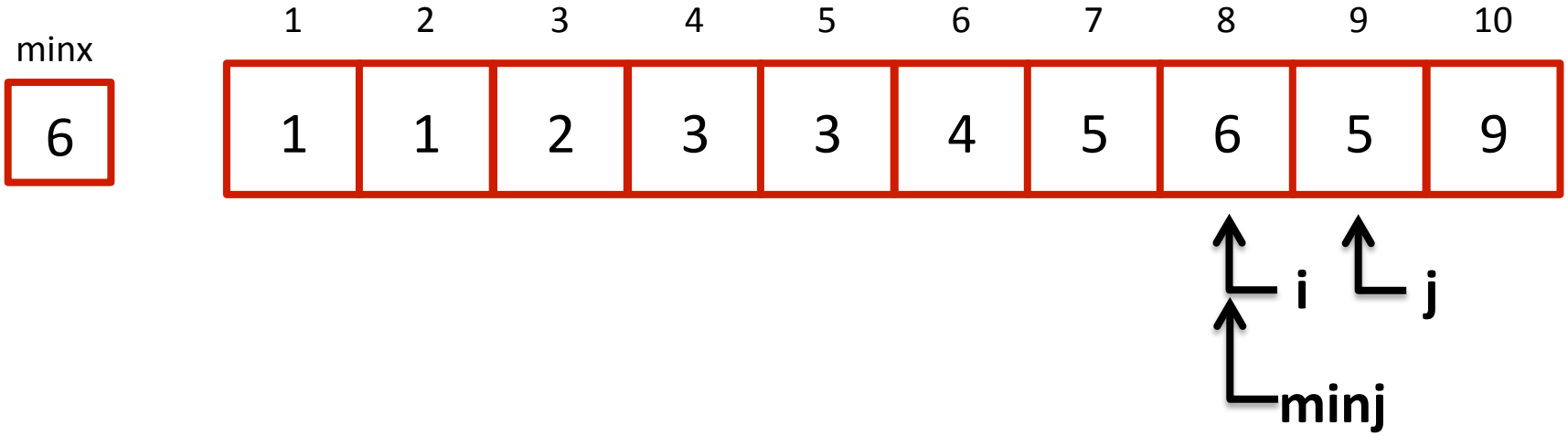

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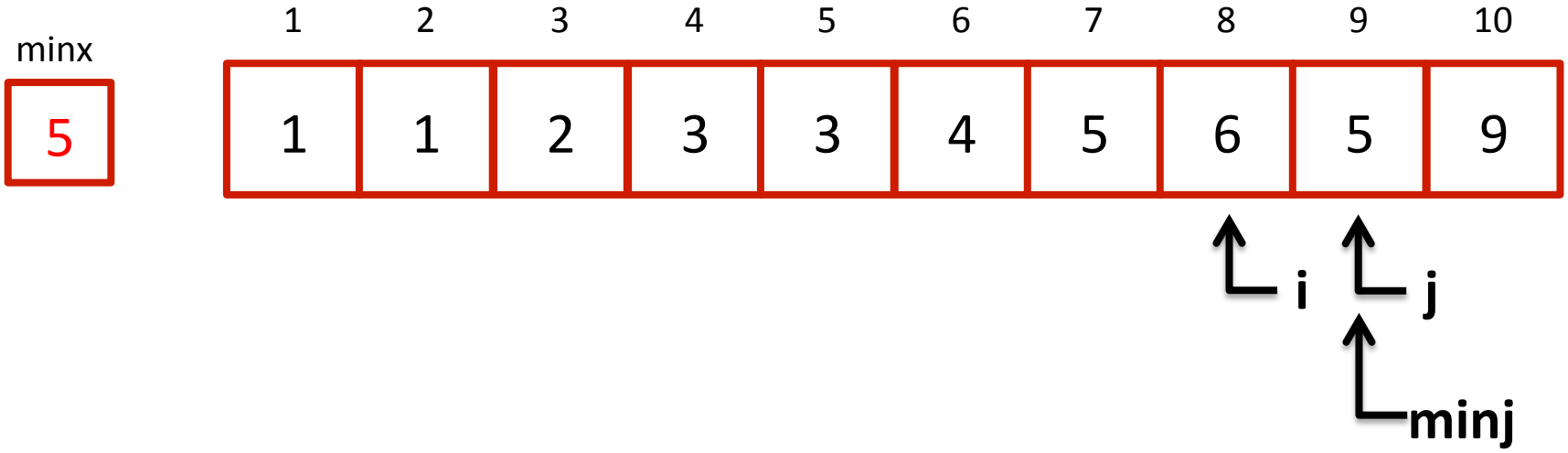

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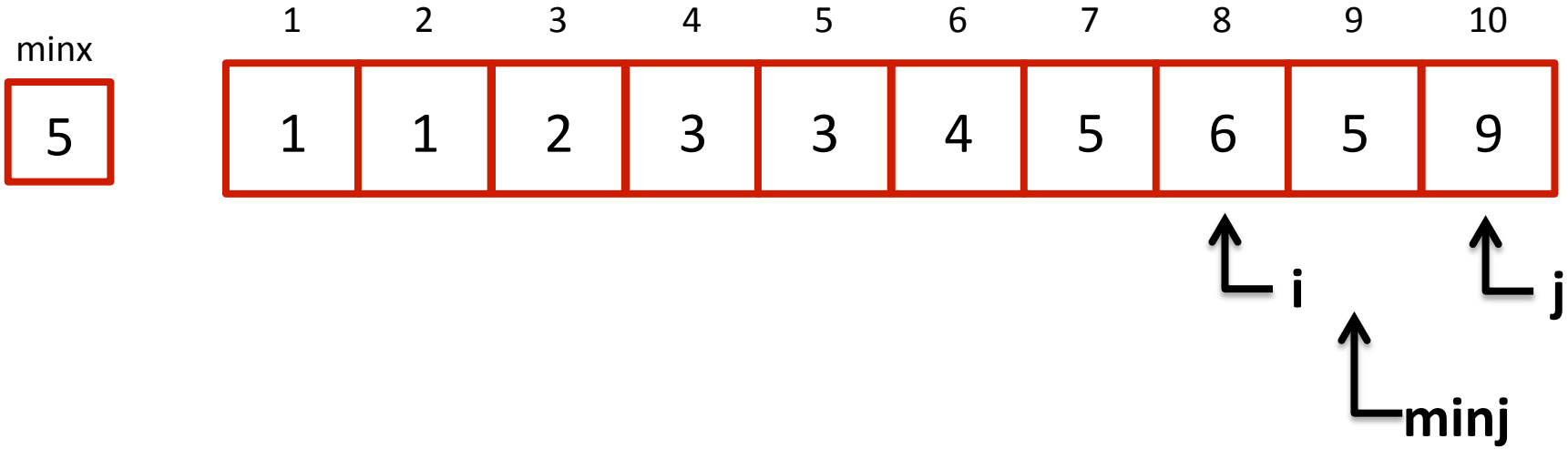

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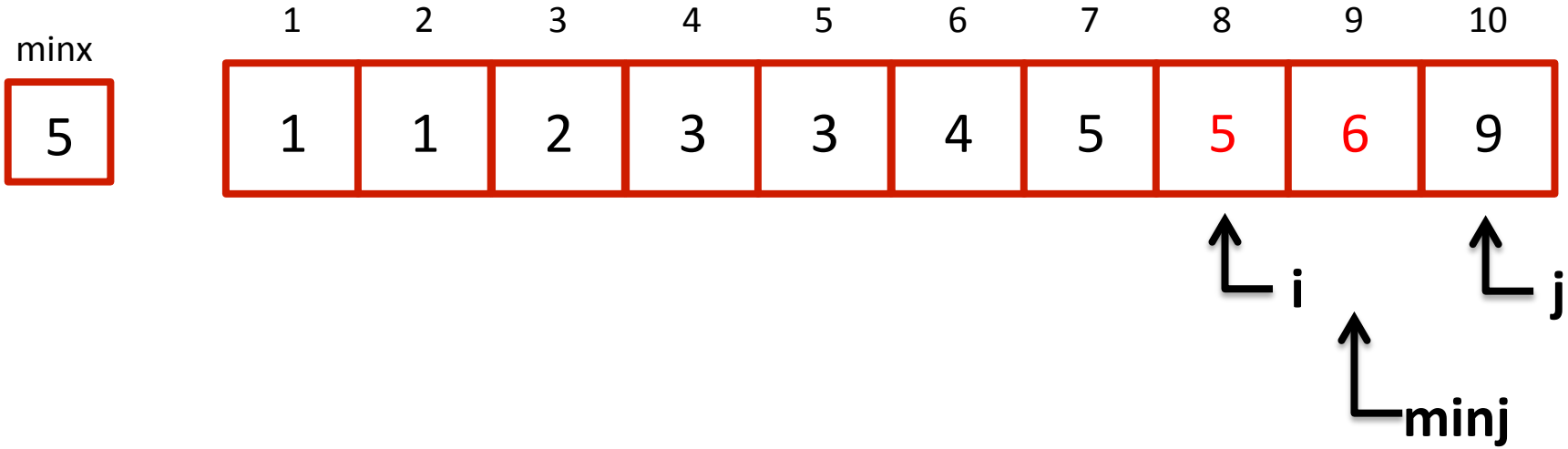

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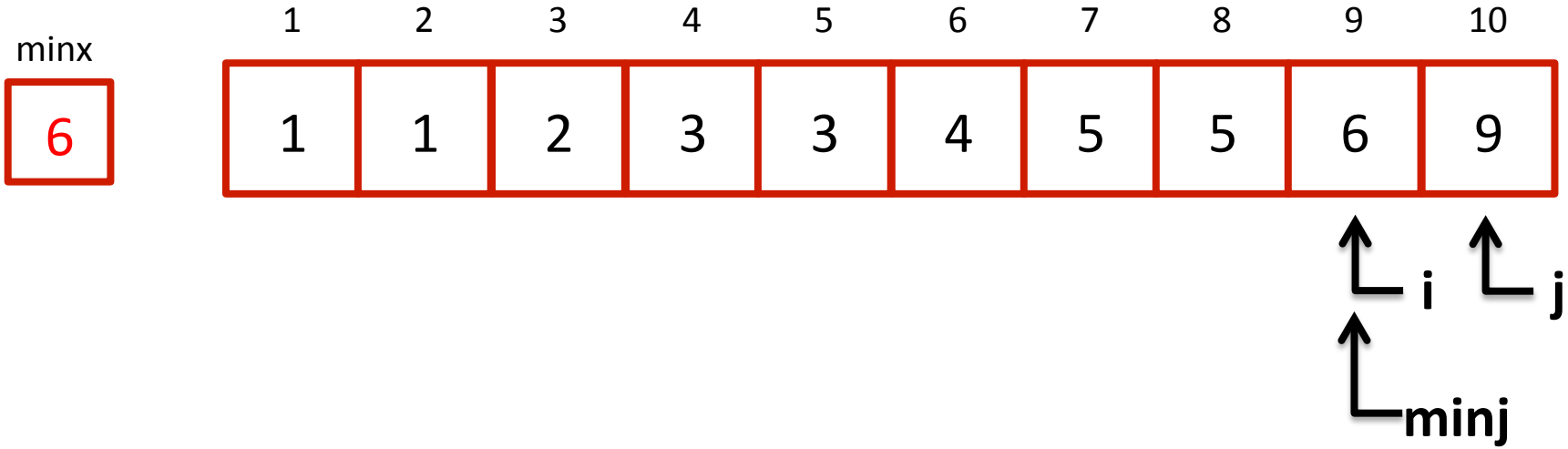

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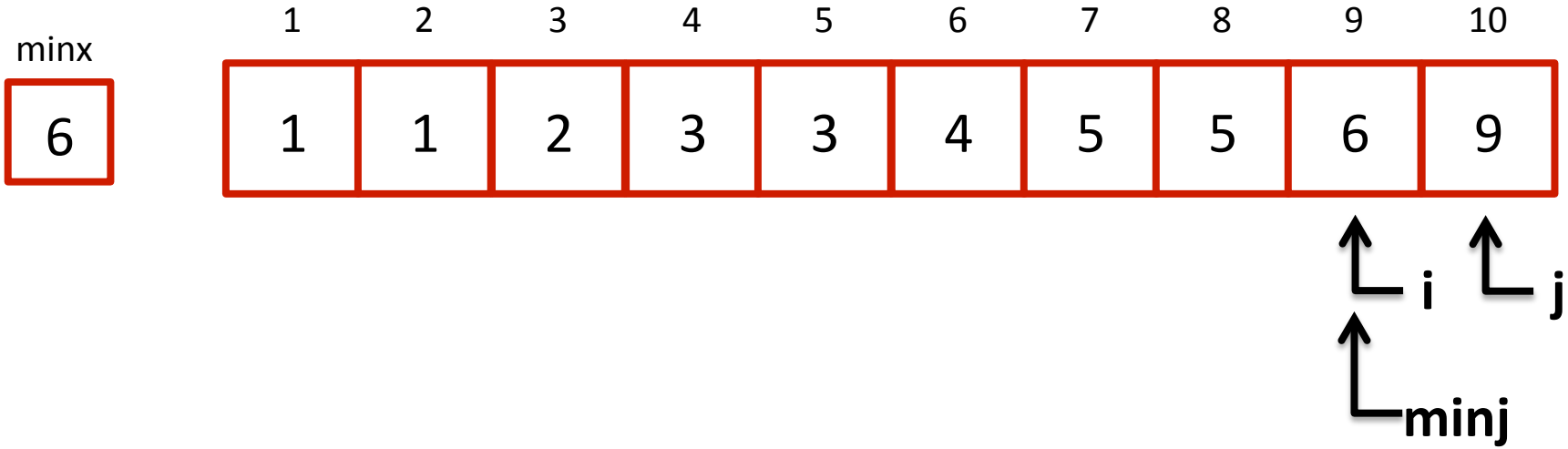

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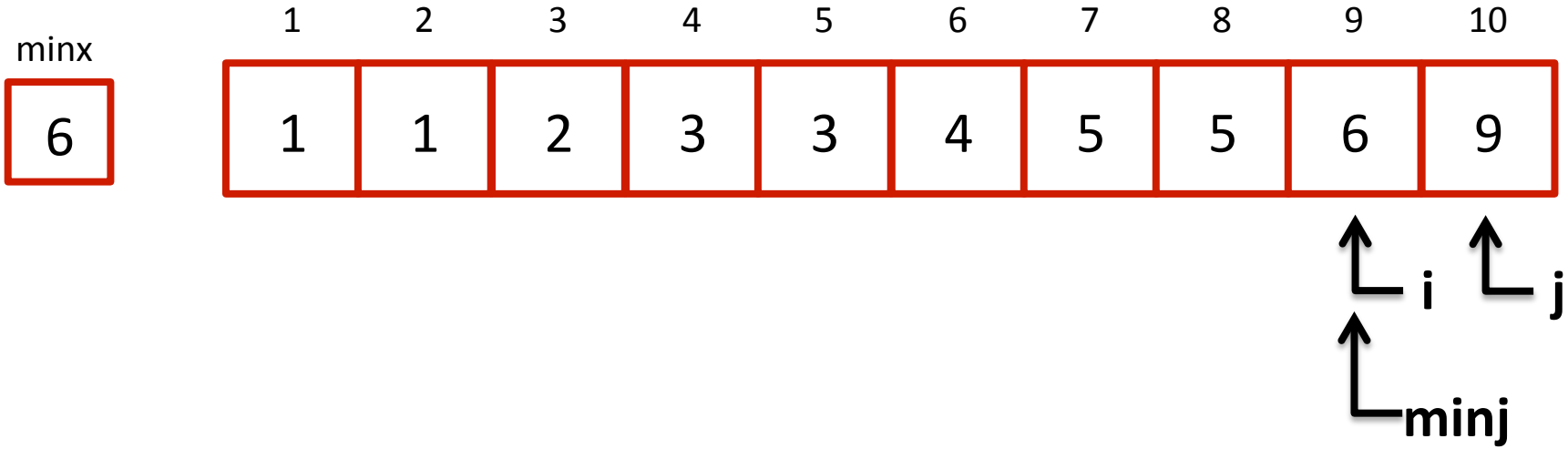

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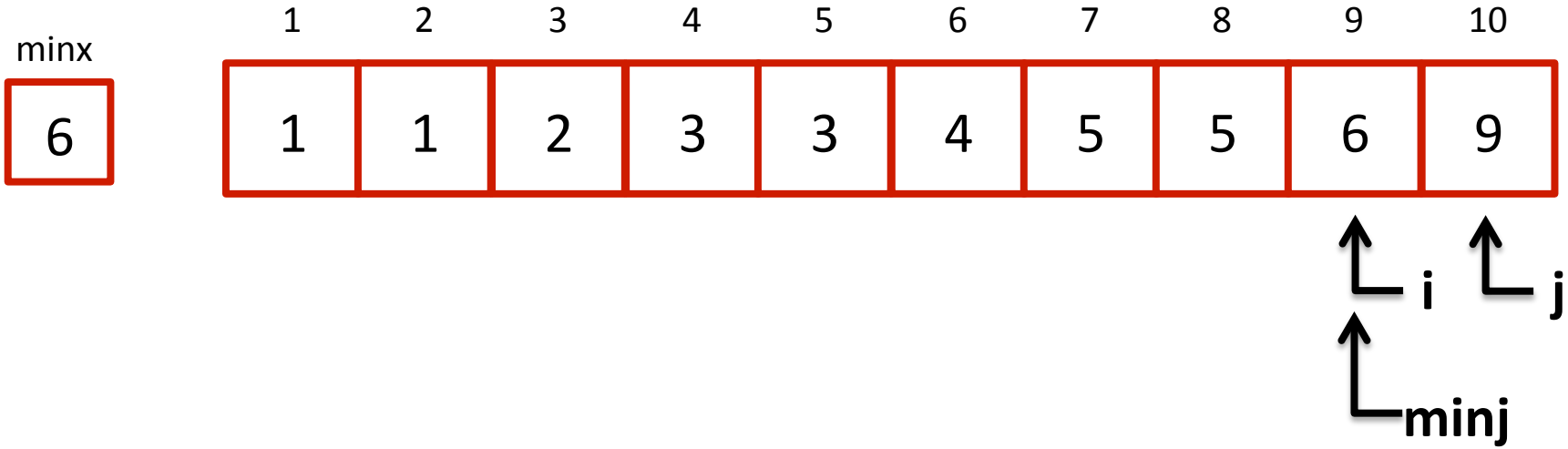

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