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Advanced Algorithms

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7.1

A close-up of a computer screen

Description automatically generated

1.

//assume the number to be found is preloaded into x

Write 0 into M[0] ;

Read M[i] into y;

If (x==y) {

Write i into M[0];

}

2.

//using n^2 processors indexed by I nd j

Write 0 into M[0] ;

Read M[i] into x;

Read M[j] into y;

If (i !=j && M[i] == M[j]) {

Write 1 into M[0];

}