

Bemerkung 2.4: Gaußscher Algorithmus

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for  $k = 1 : n - 1$ 
  |  $p := k; s := |a_{kk}|$ 
  for  $i = k + 1 : n$ 
    | if  $|a_{ik}| > s$  then  $p := i; s := |a_{ik}|$ 
  for  $j = k : n$ 
    |  $s := a_{kj}; a_{kj} := a_{pj}; a_{pj} := s$ 
   $s := b_k; b_k := b_p; b_p := s$ 
  for  $i = k + 1 : n$ 
    |  $l_{ik} := a_{ik}/a_{kk};$ 
    |  $b_i := b_i - l_{ik} \cdot b_k$ 
    for  $j = k + 1 : n$ 
      |  $a_{ij} := a_{ij} - l_{ik} \cdot a_{kj}$ 
```

