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| **Algorithm 1**: The iterative algorithm of FCM |
| **Input:** sample data, initial dividing\_matrix, initial cluster\_center |
| **Output:** iterative result |
| 1. [sample, feature] = **size**(data); |
| 1. **while** **ture** |
| 1. iter\_counter += 1; |
| 1. update cluster\_center; |
| 1. **for** i = 1 : sample |
| 1. **for** j = 1 : feature |
| 1. update dividing\_matrix; |
| 1. **if** dividing\_matrix – pre\_dividing\_matrix < stopping\_threshold |
| 1. **break**; |