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1. Teile `array` in zwei gleich große Hälften

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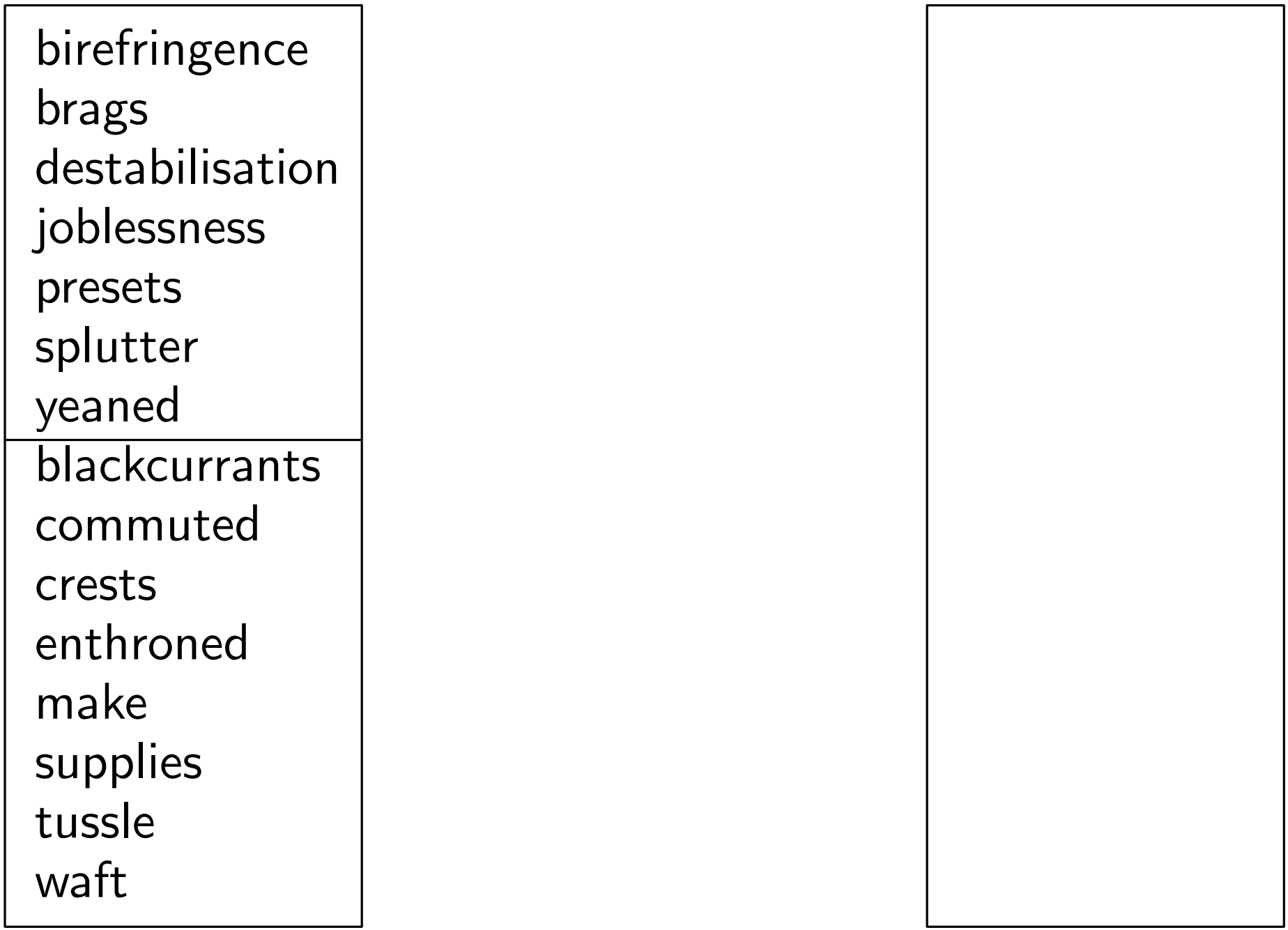
Subroutine `merge`



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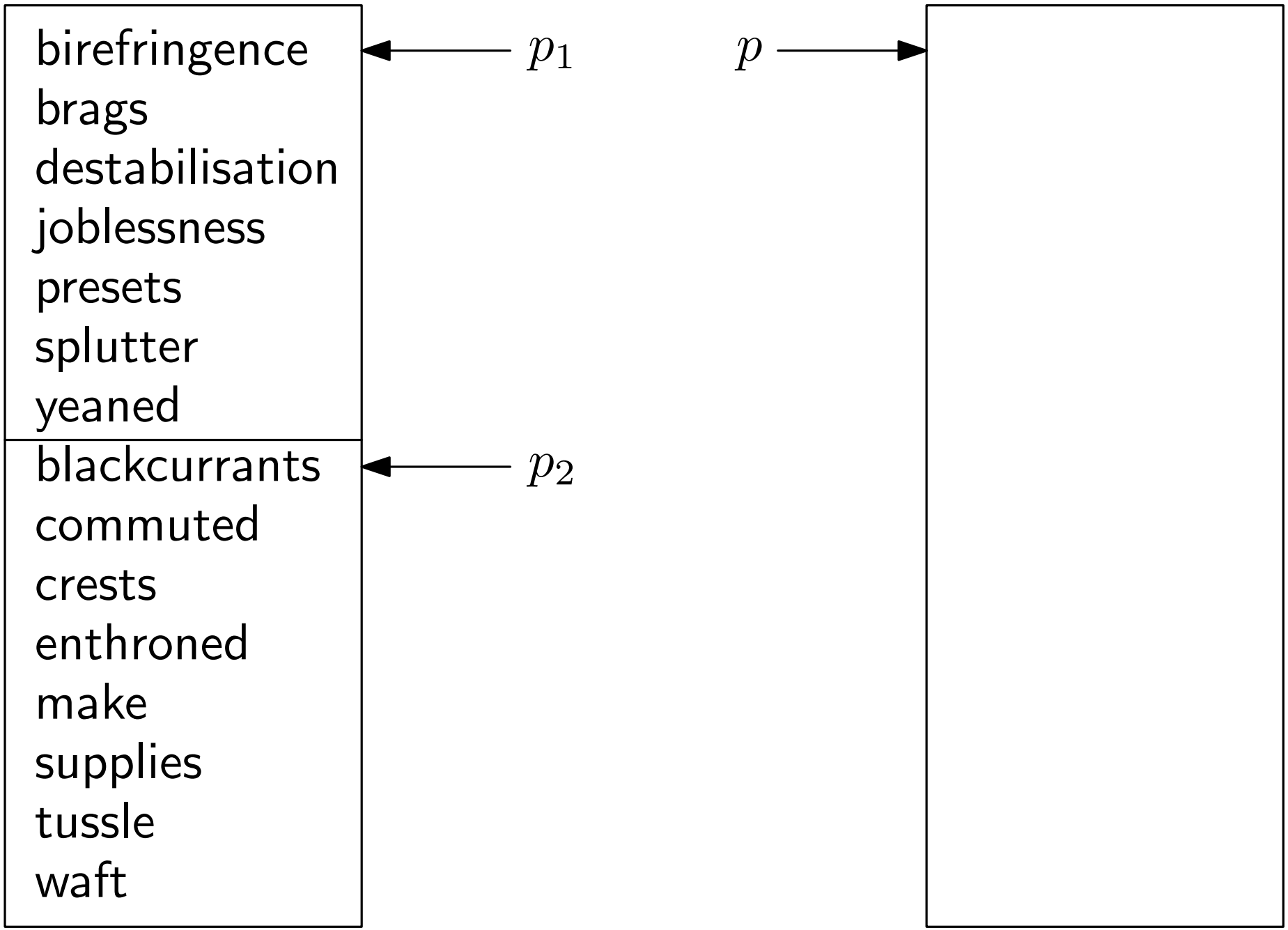

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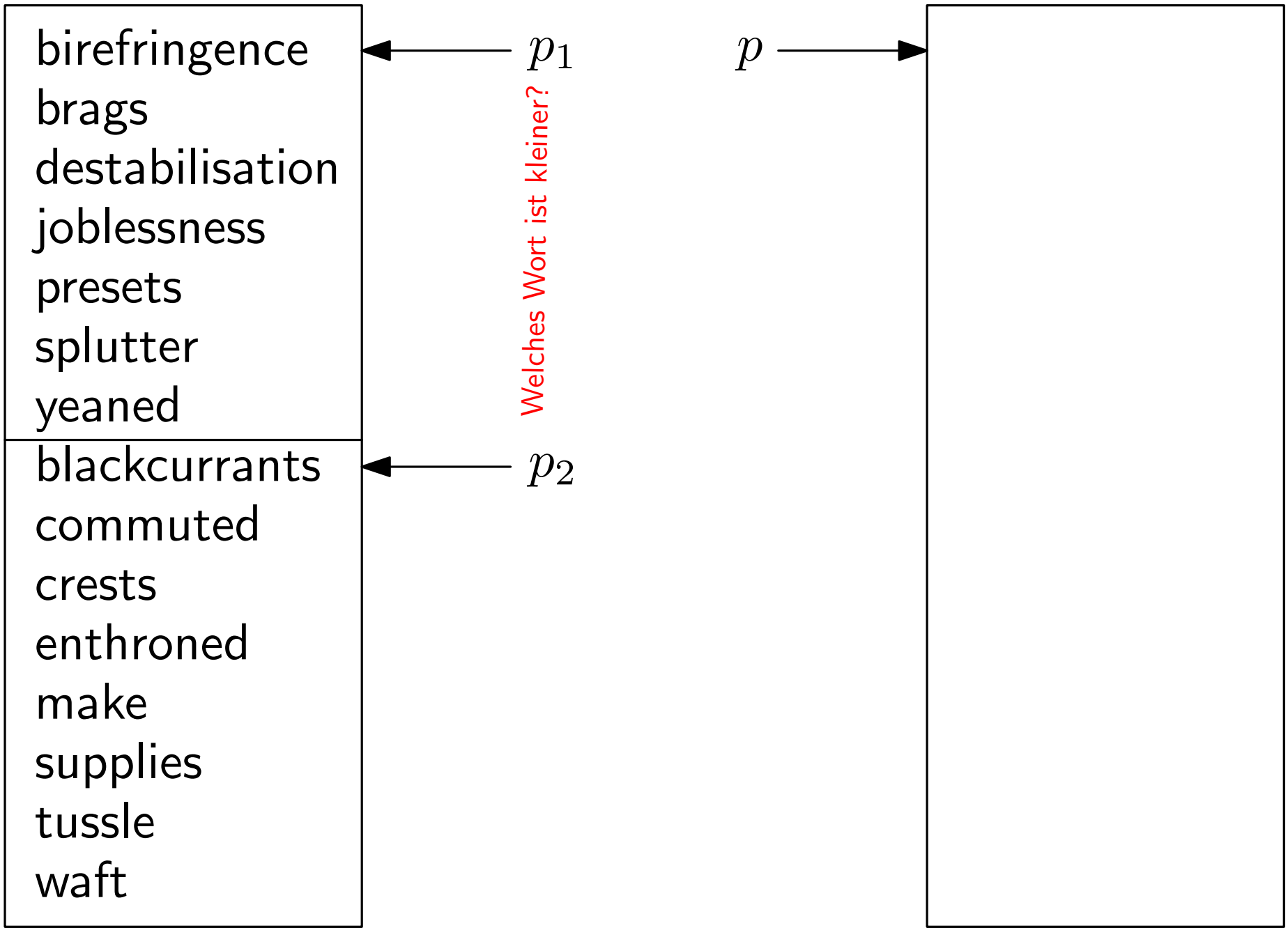

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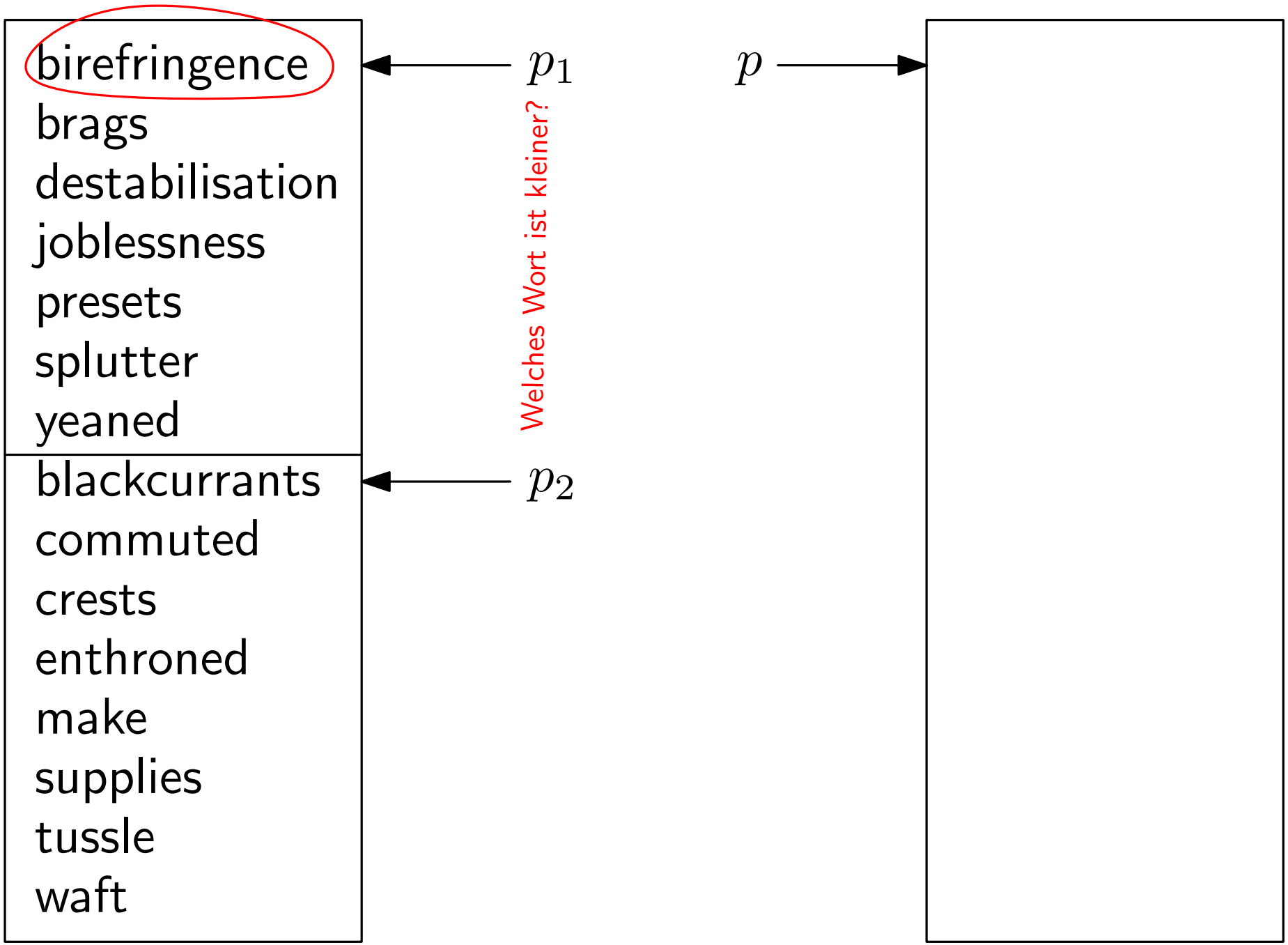

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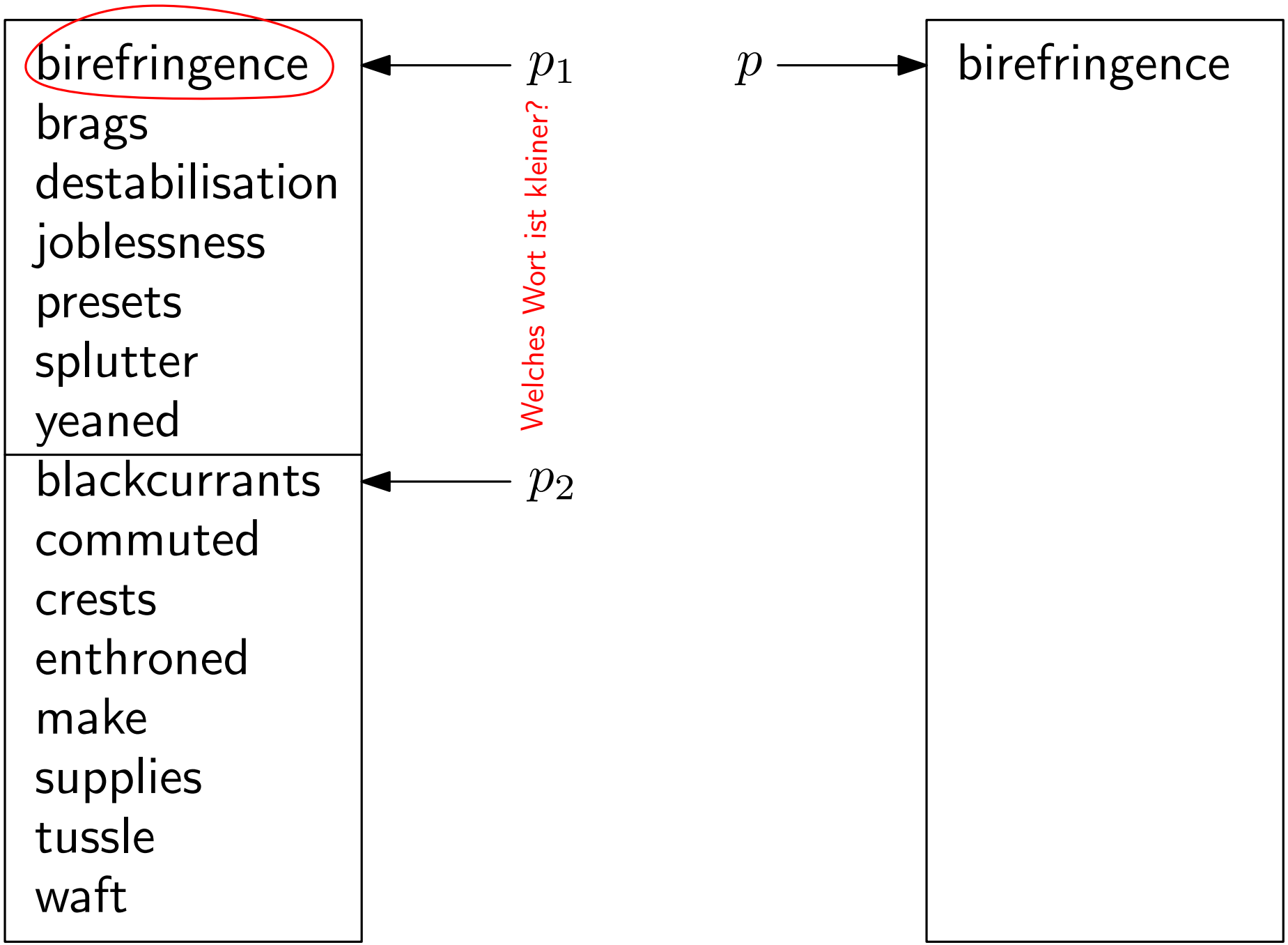

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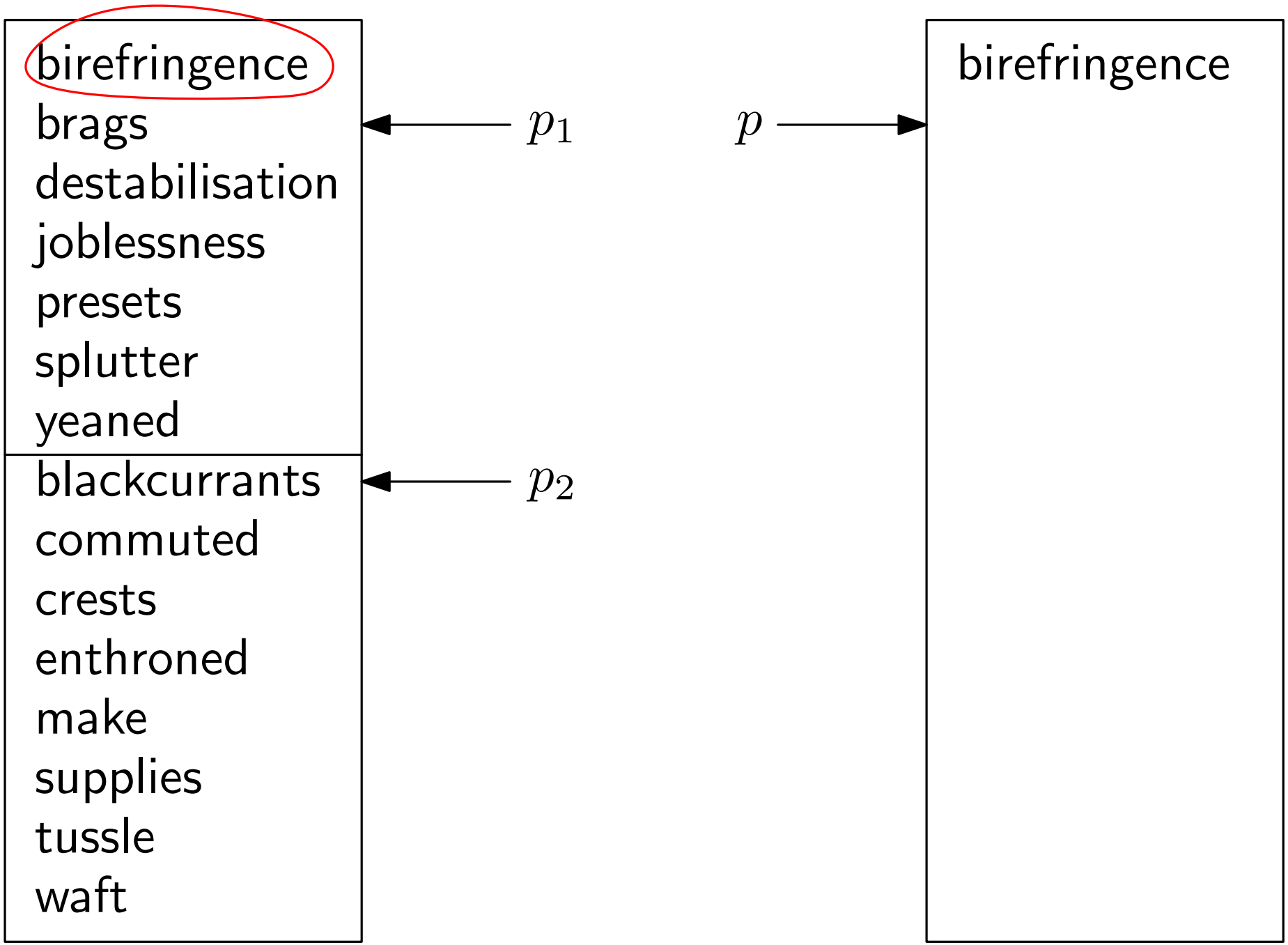

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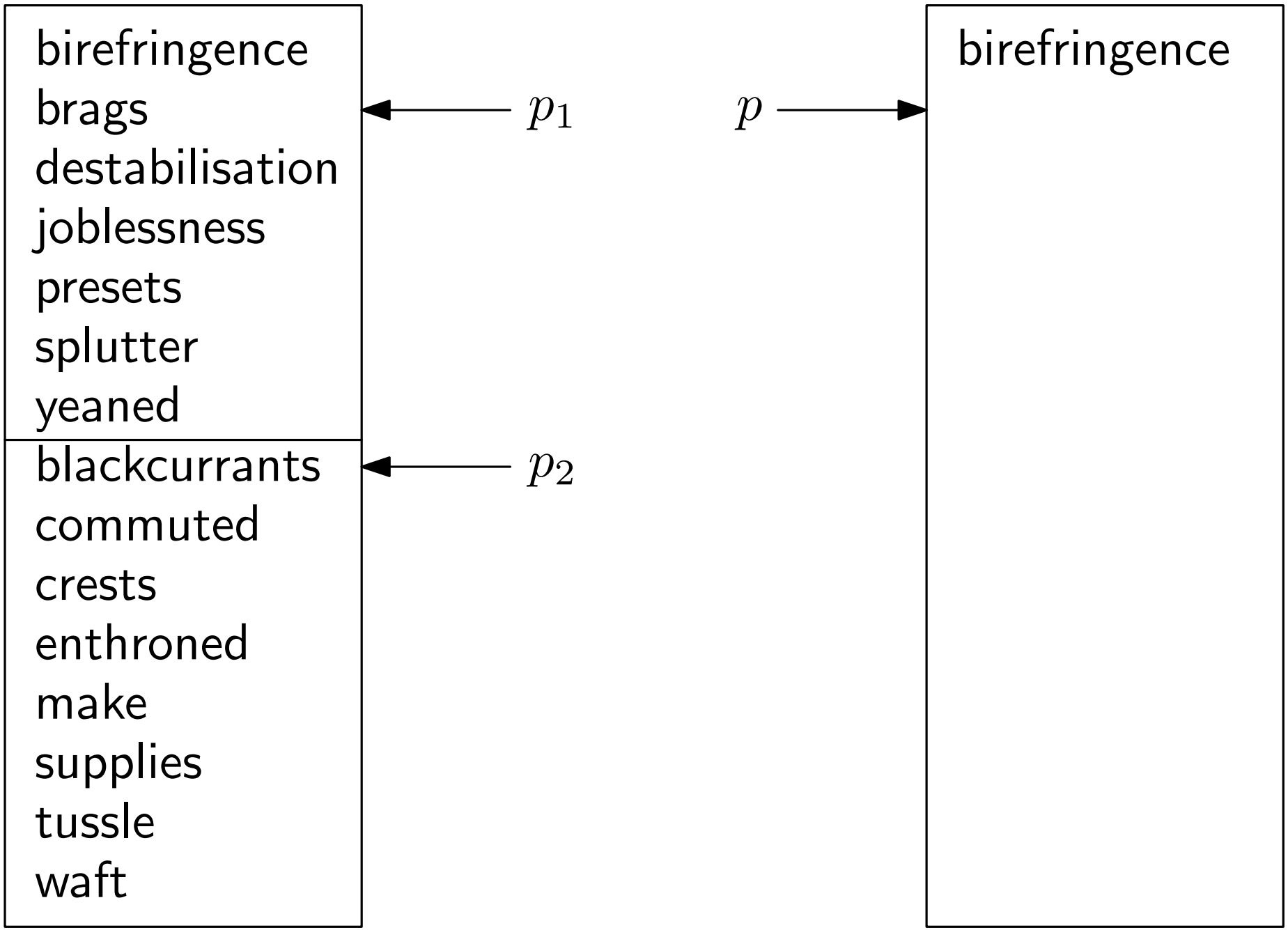

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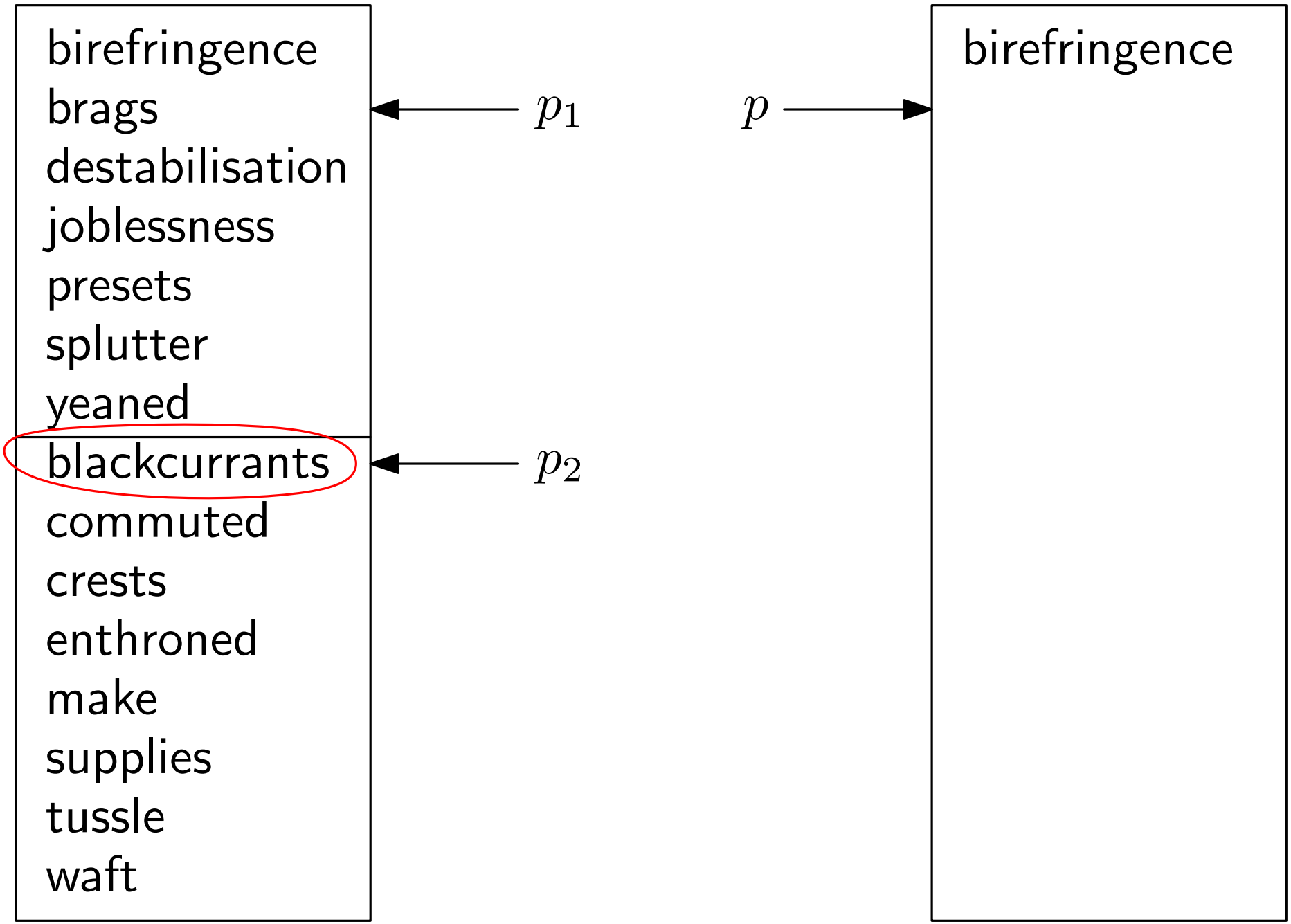

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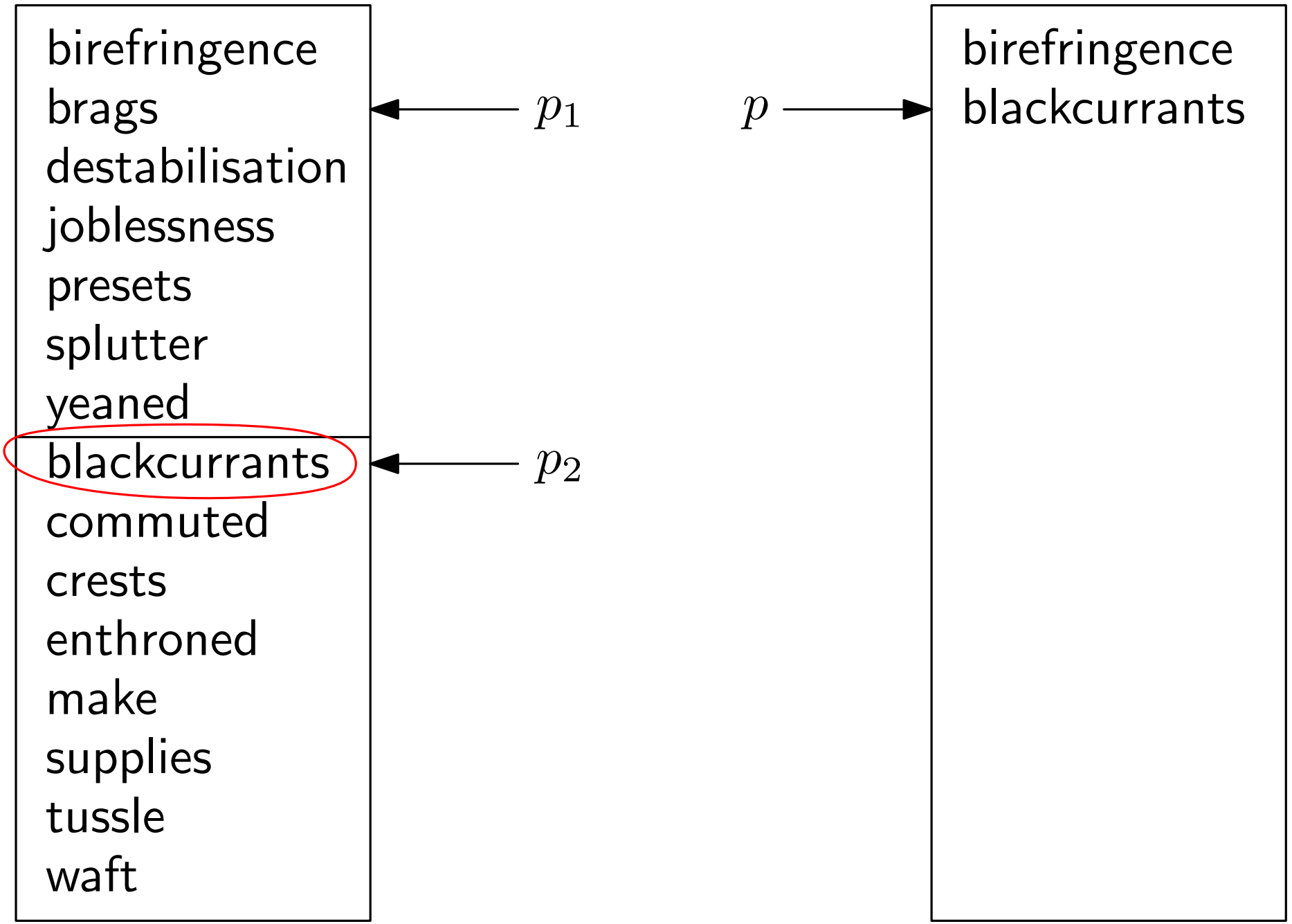

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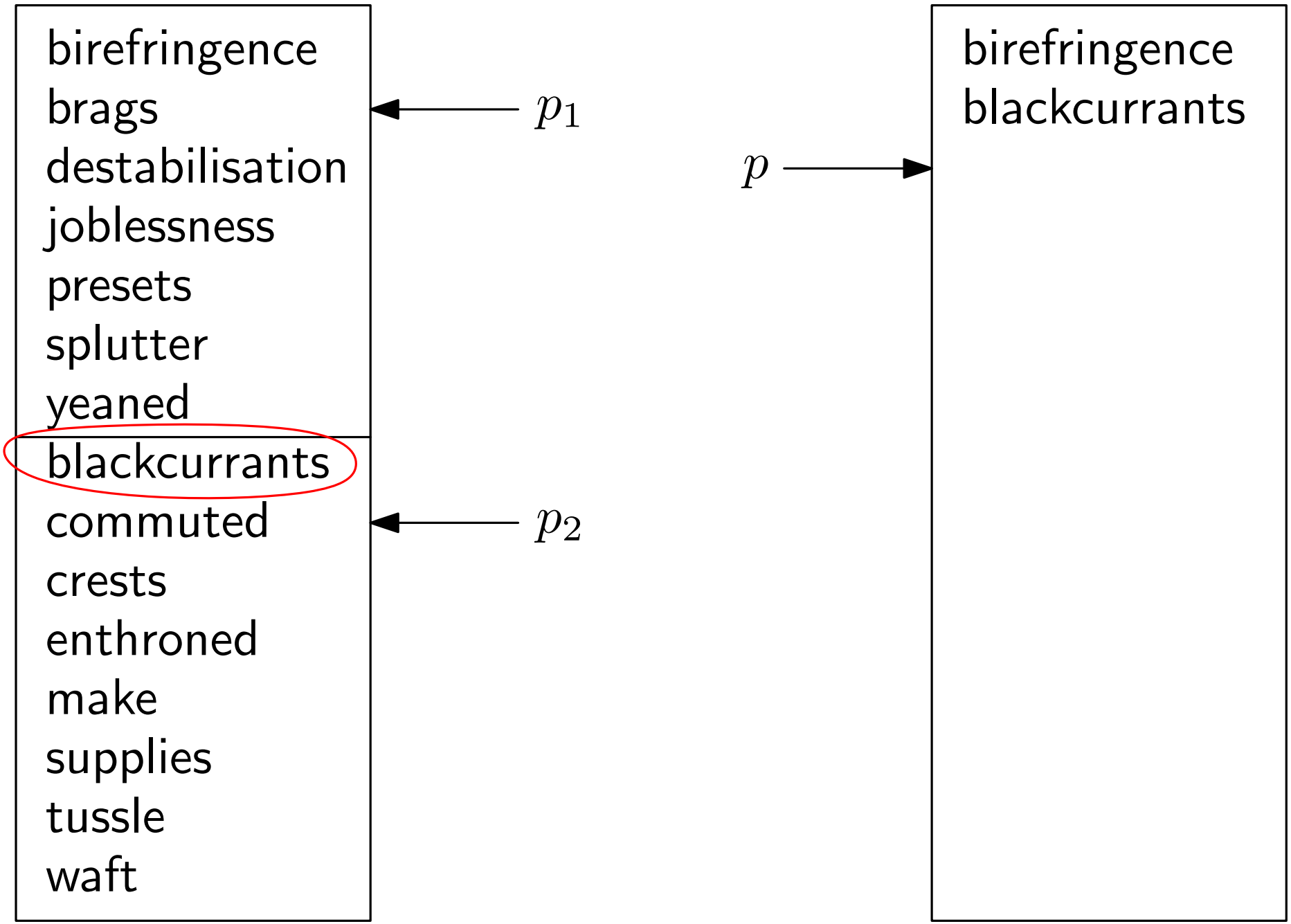

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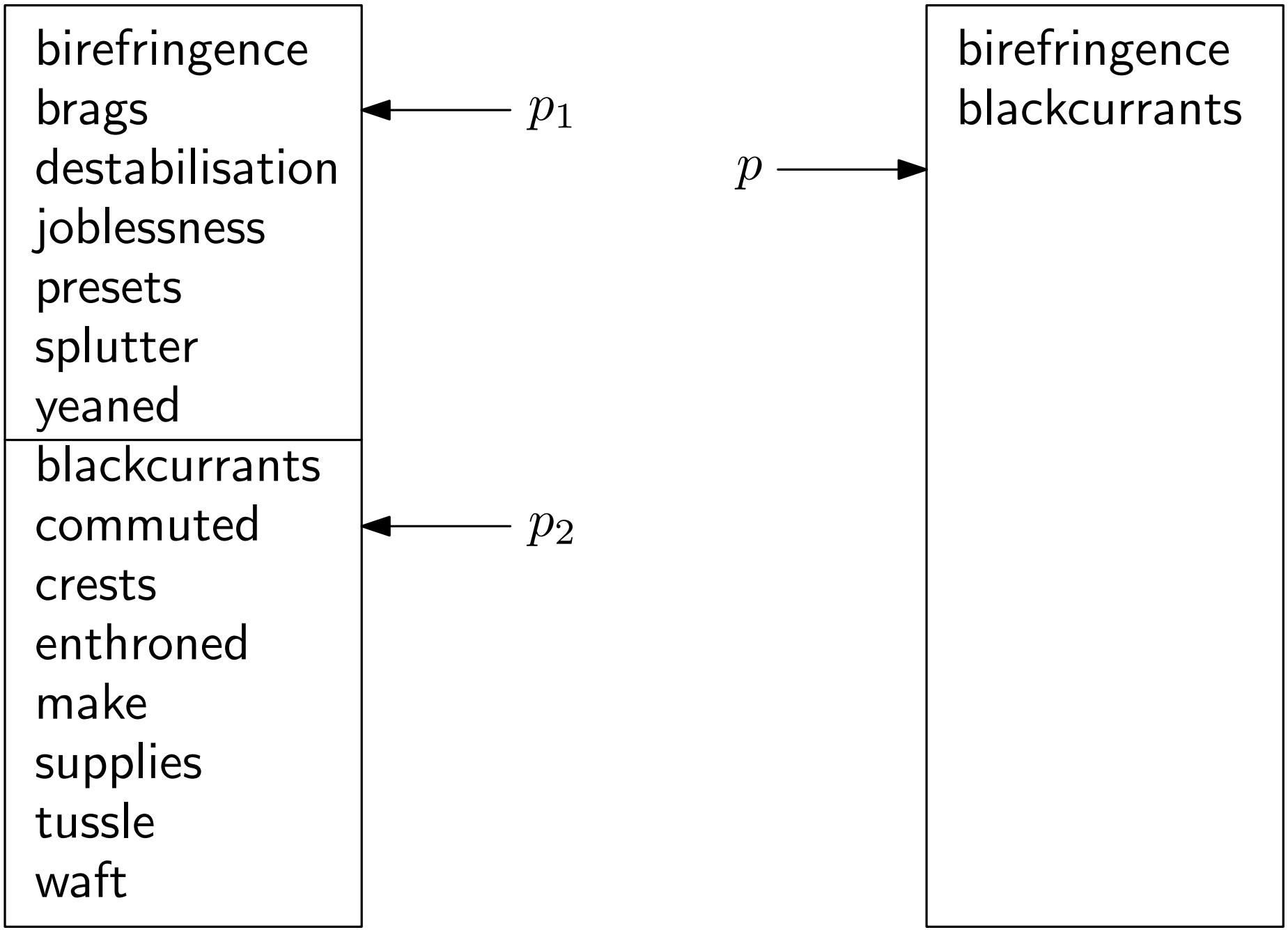

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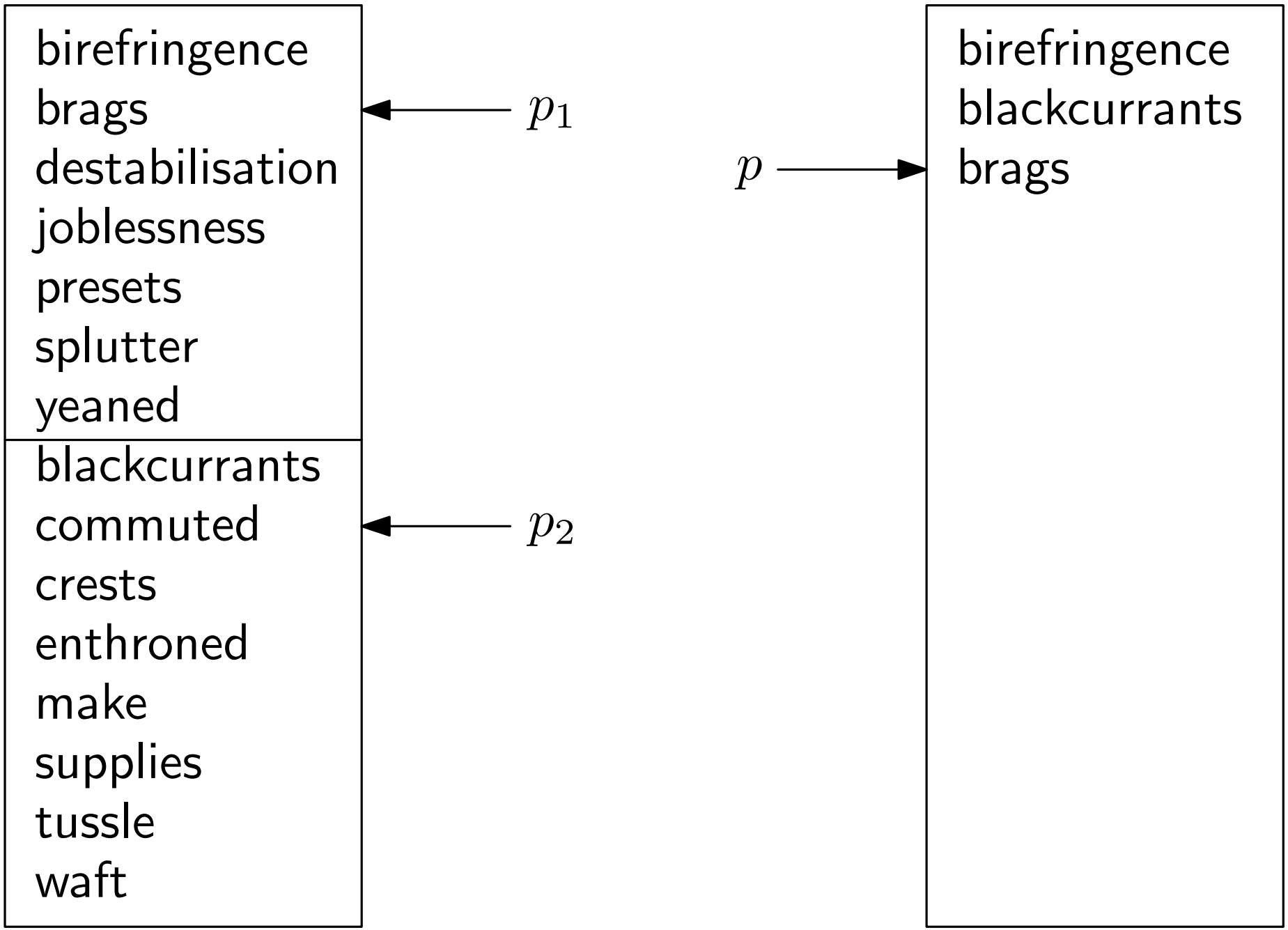

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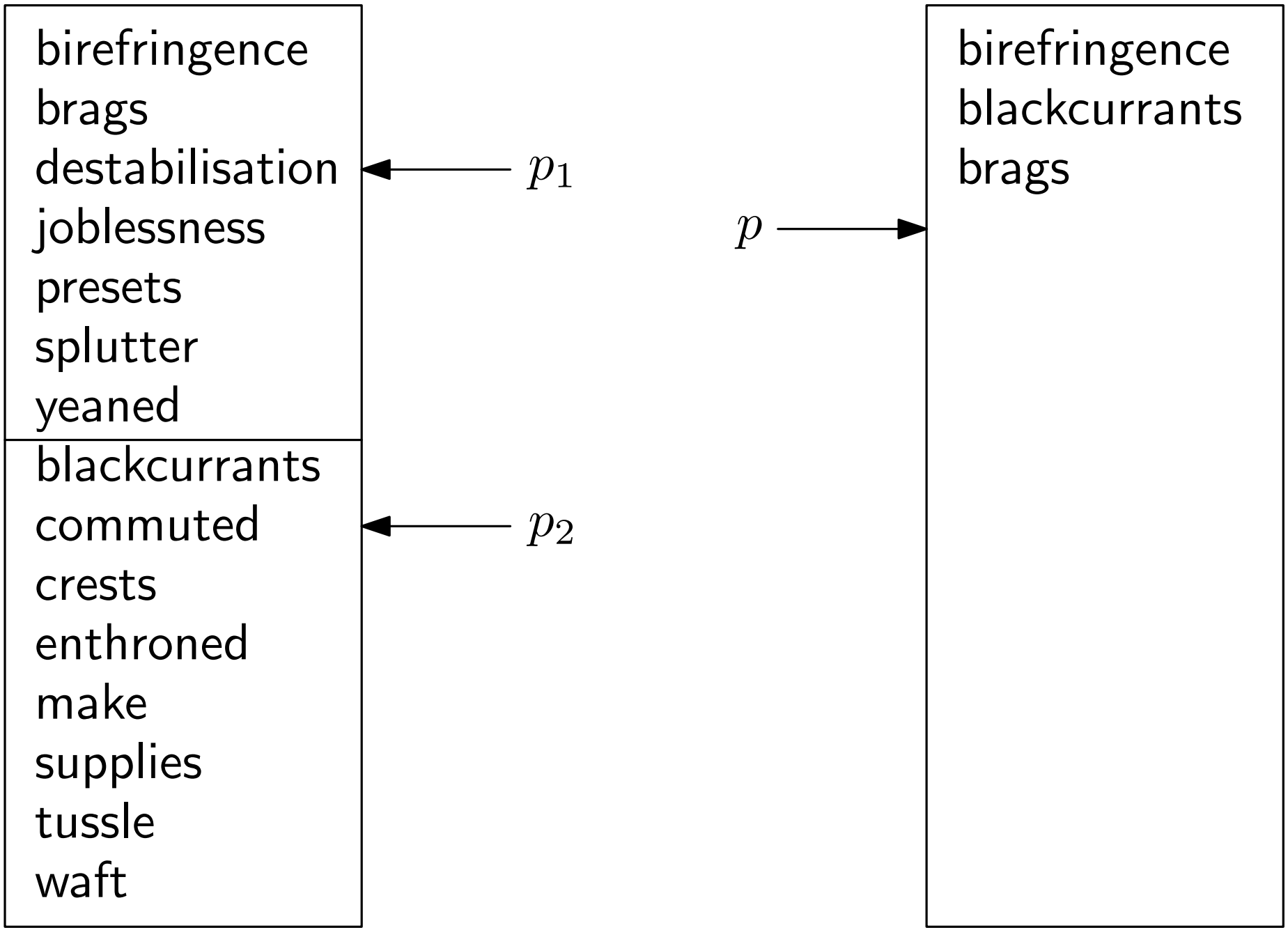

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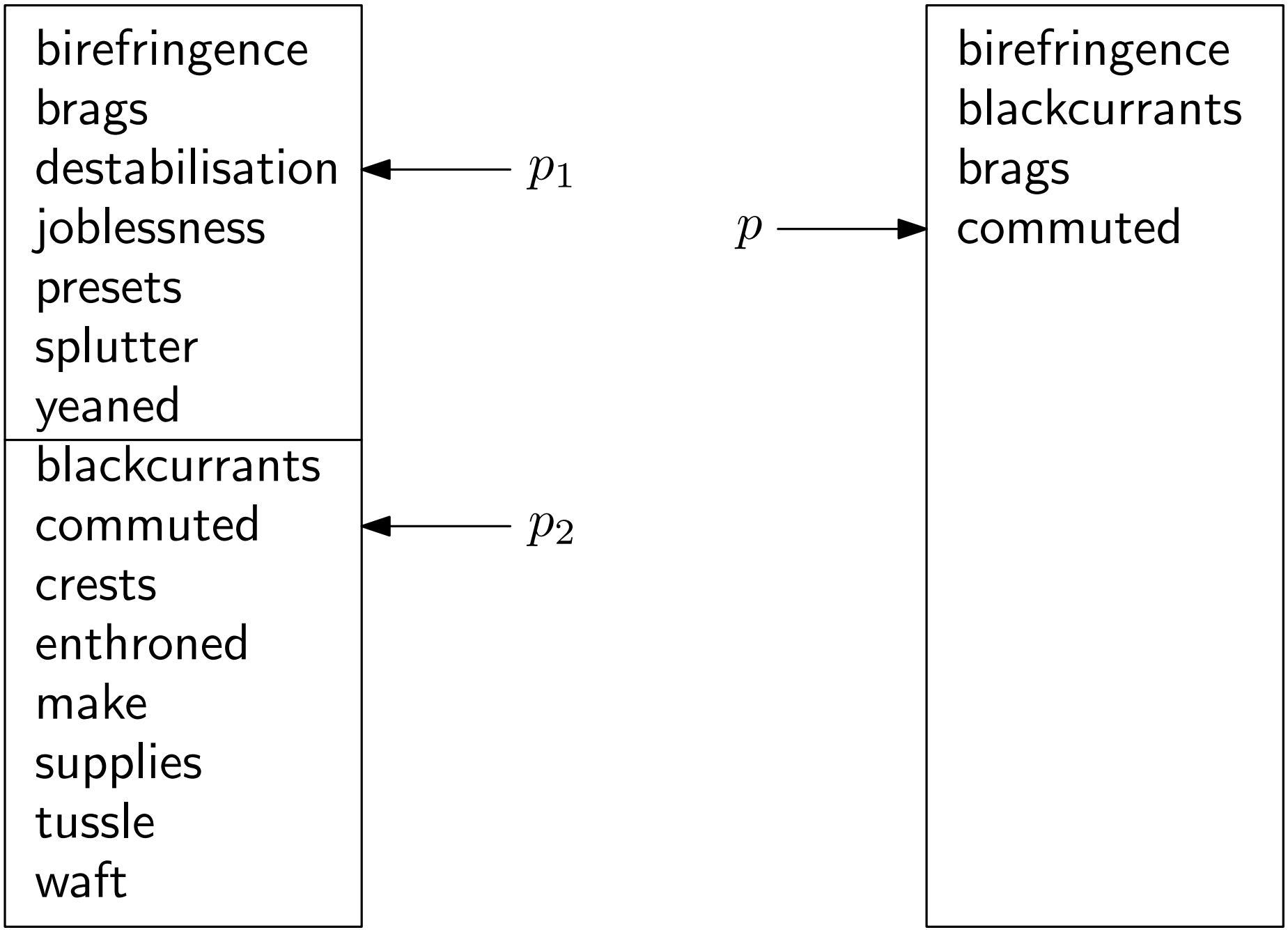

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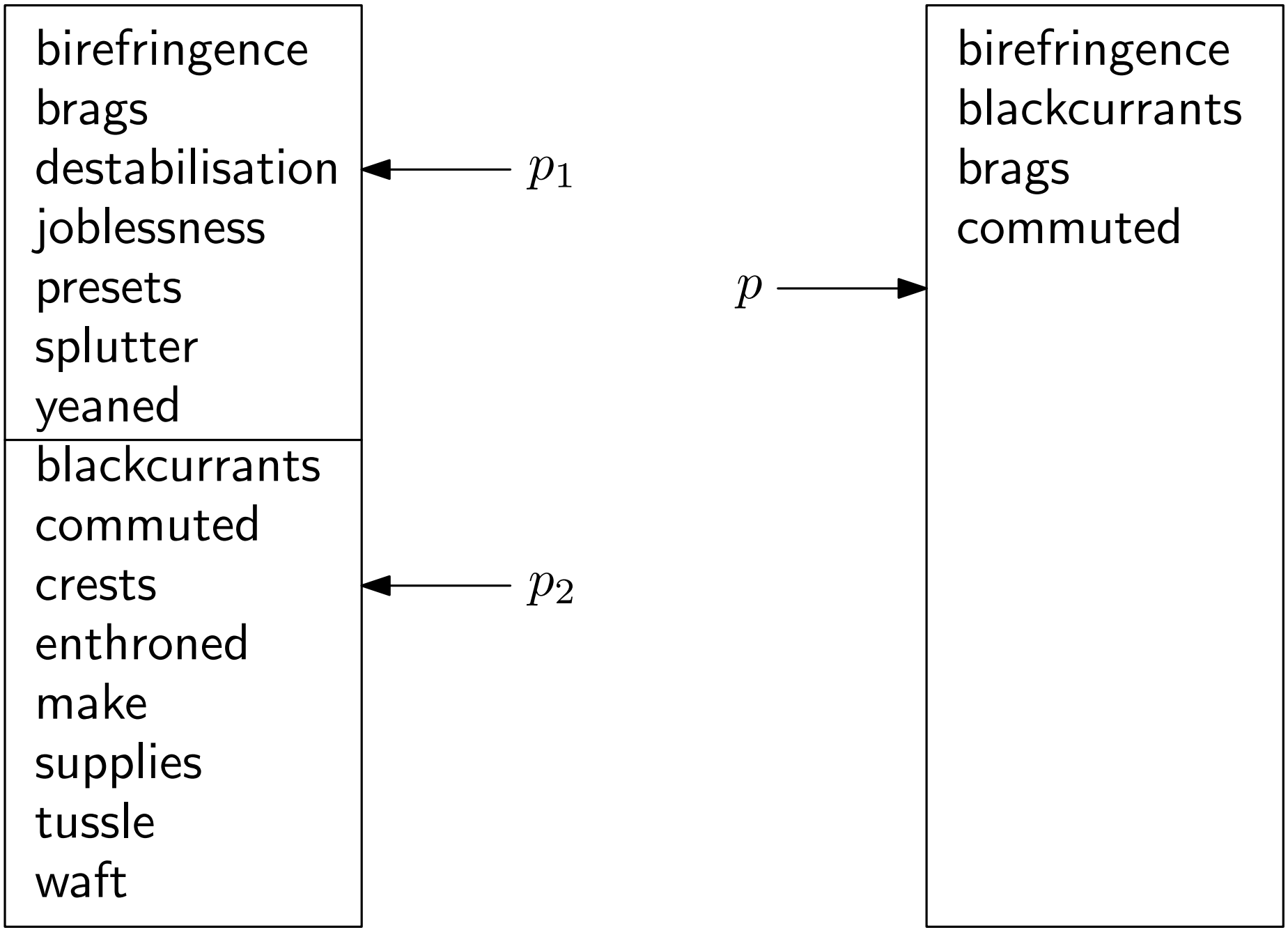

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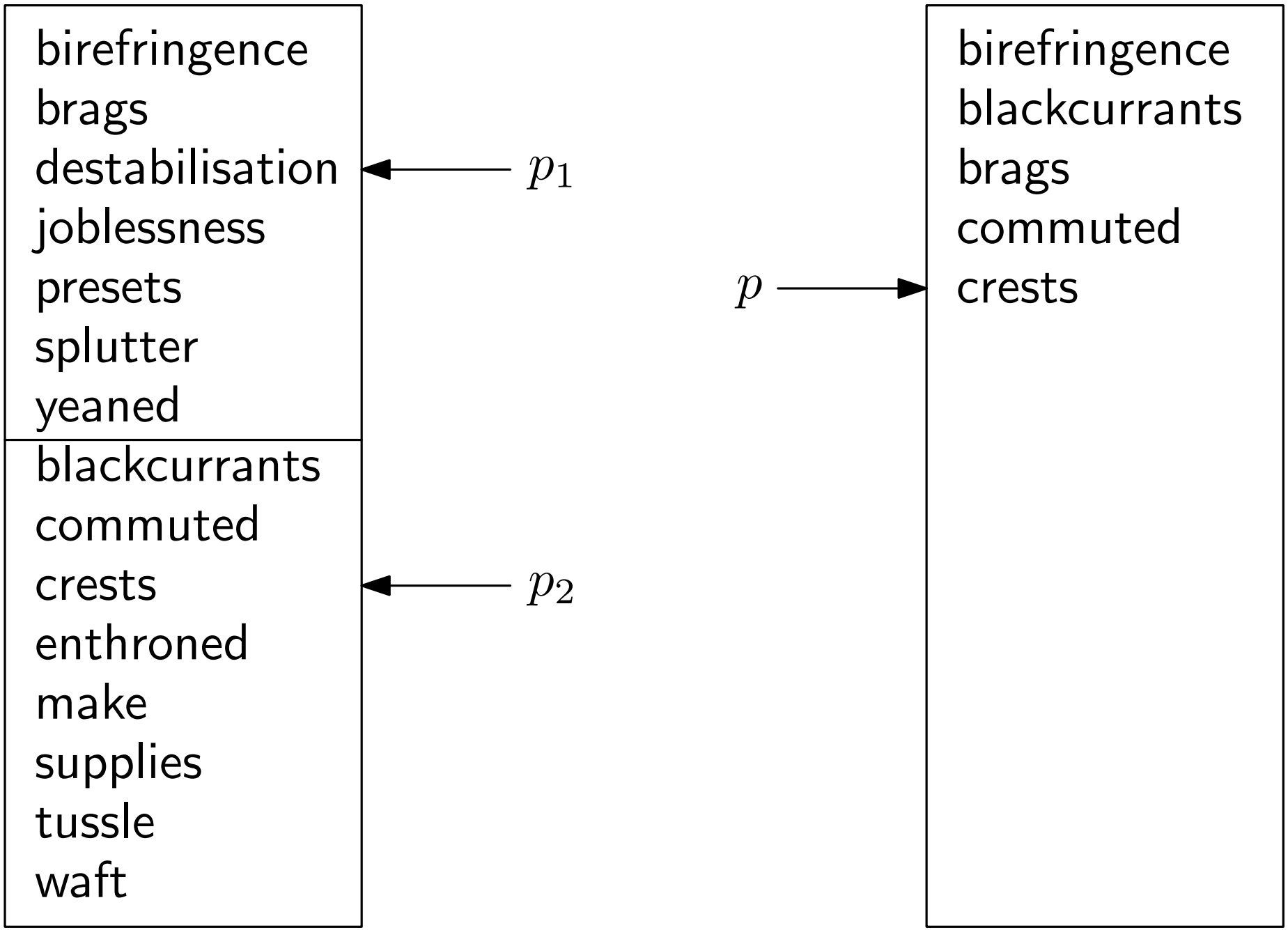

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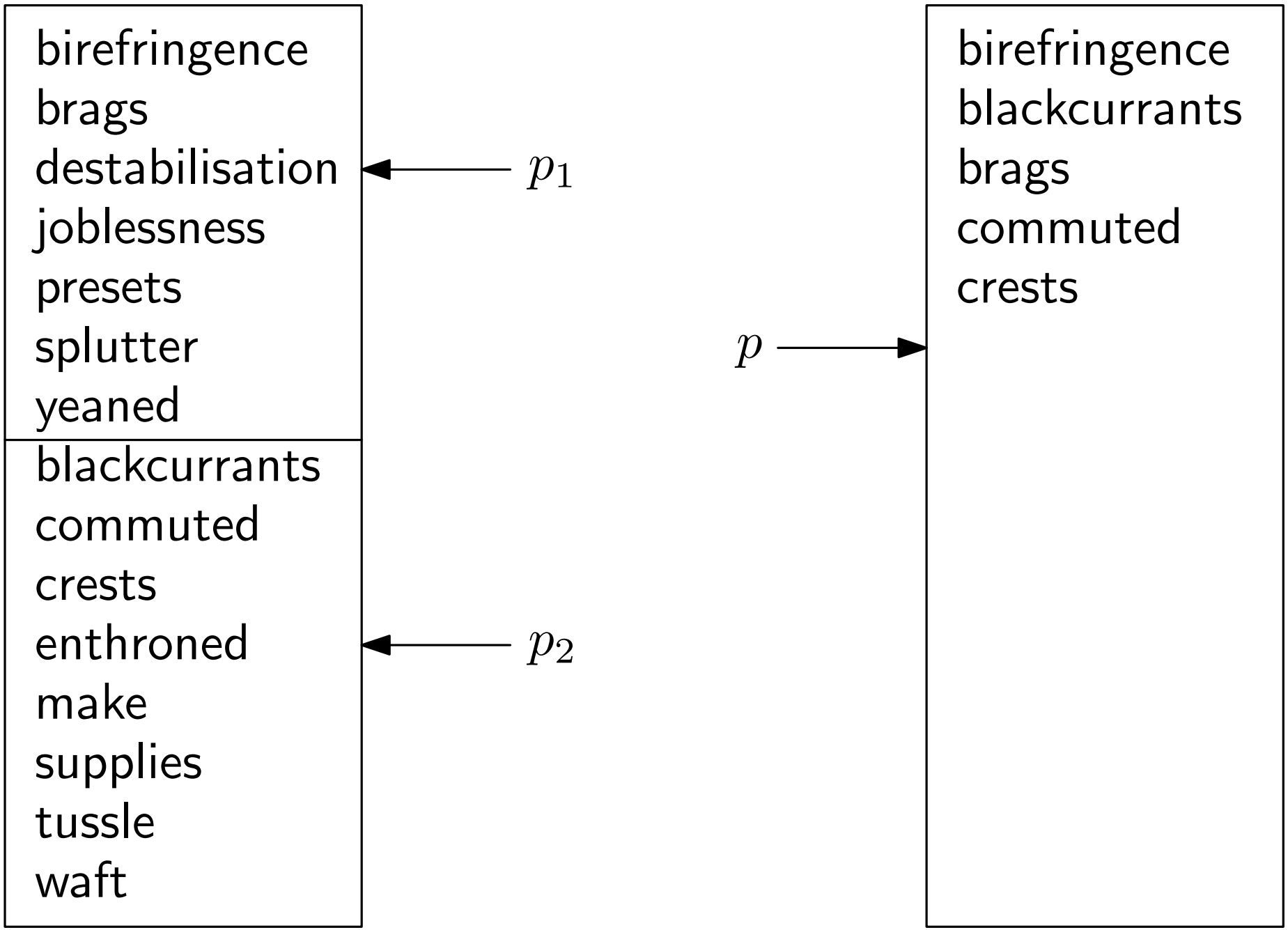

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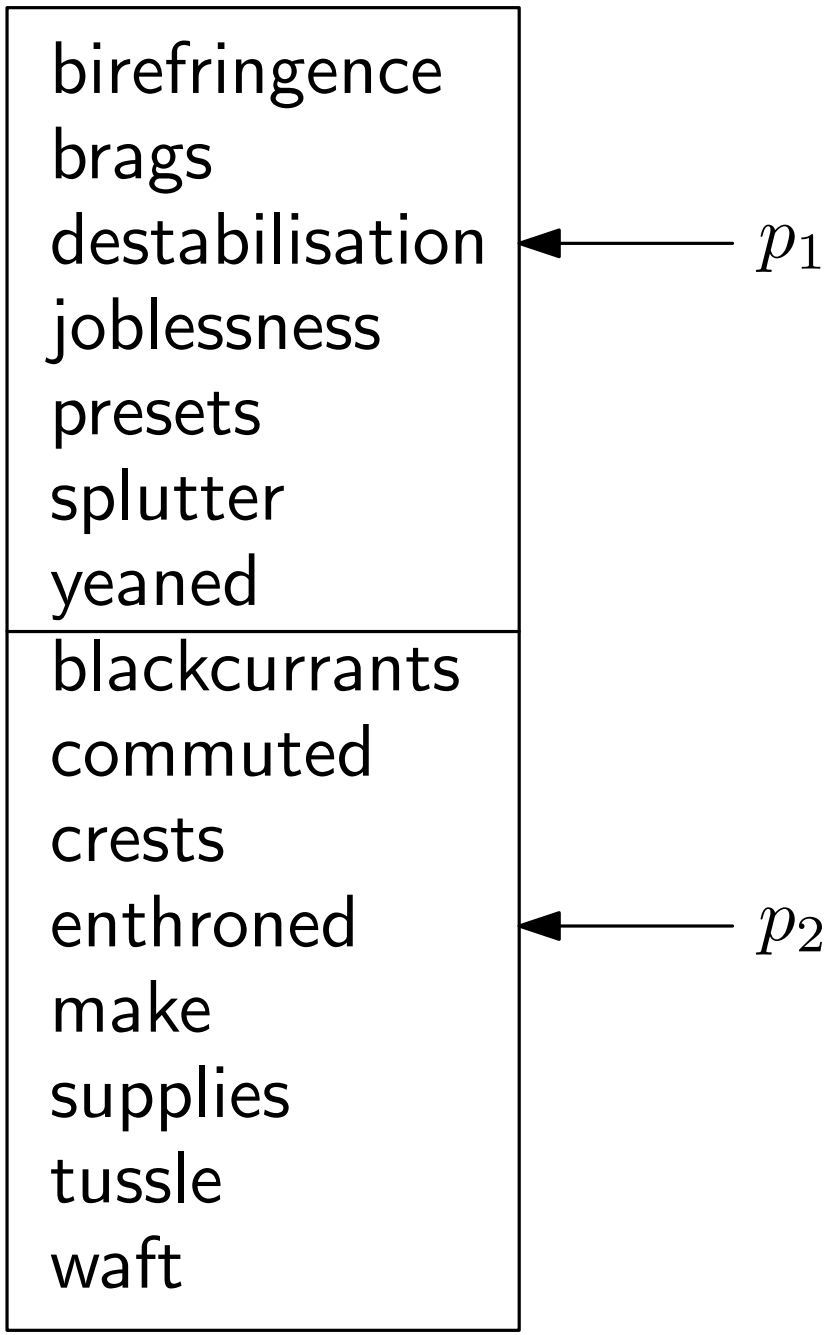


```
merge(array1, array2)
  array := array of length n
  p1 = p2 = p = 0
  while p < n:
    if array1[p1] < array2[p2]:
      array[p] = array1[p1]
      p1 := p1 + 1
    else:
      array[p] = array2[p2]
      p2 := p2 + 1
    p := p + 1
  end while
  return array
```