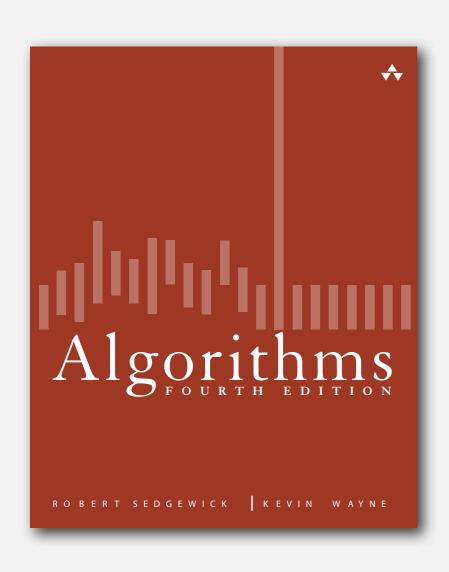
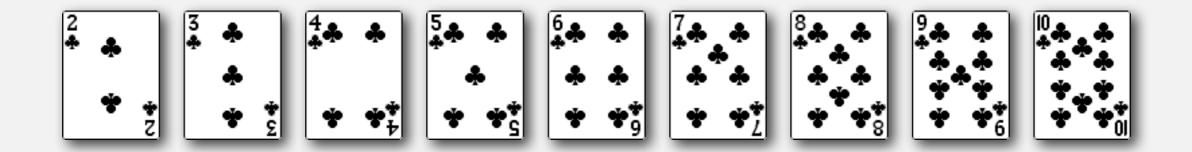
# 2.1 KNUTH SHUFFLE DEMO

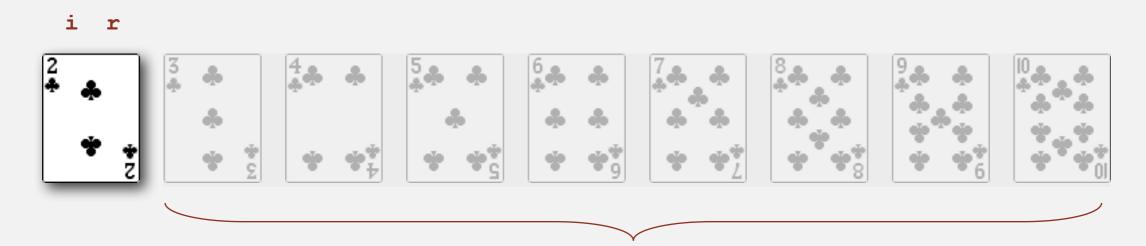


click to begin demo

- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].

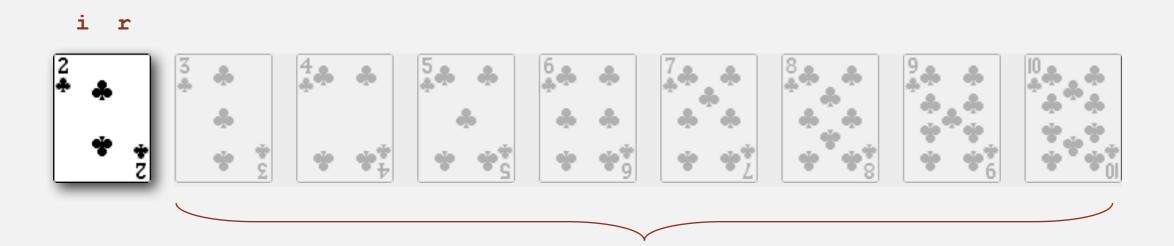


- In iteration i, pick integer r between 0 and i uniformly at random.
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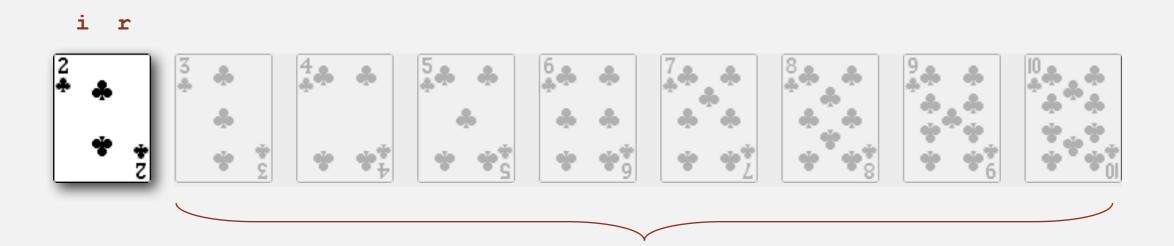
not yet seen

- In iteration i, pick integer r between 0 and i uniformly at random.
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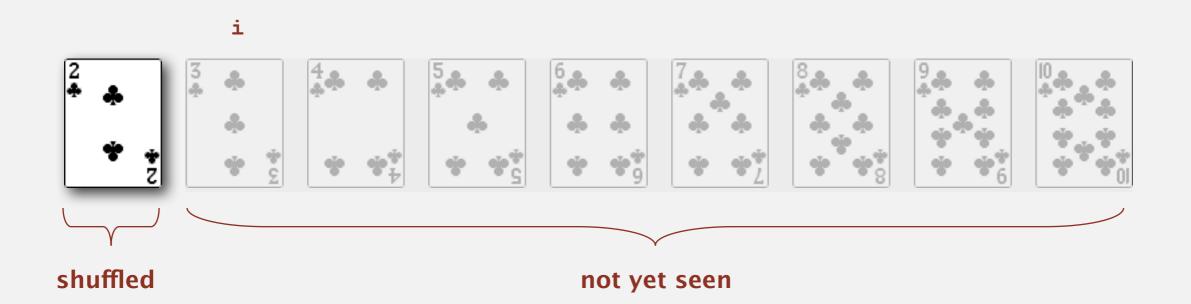
not yet seen

- In iteration i, pick integer r between 0 and i uniformly at random.
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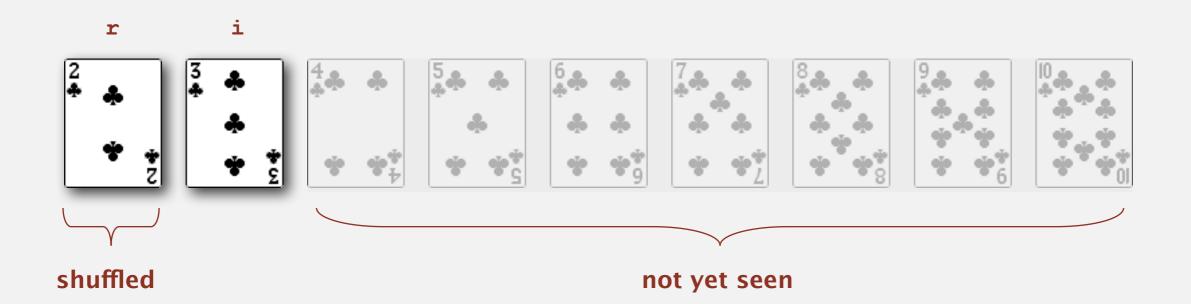


not yet seen

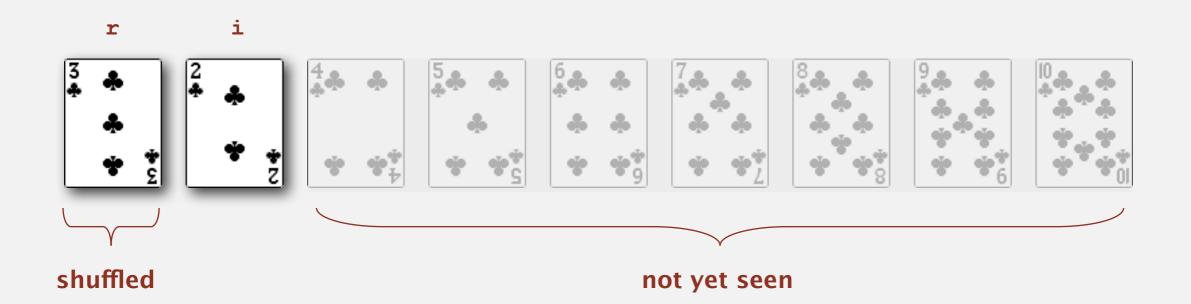
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



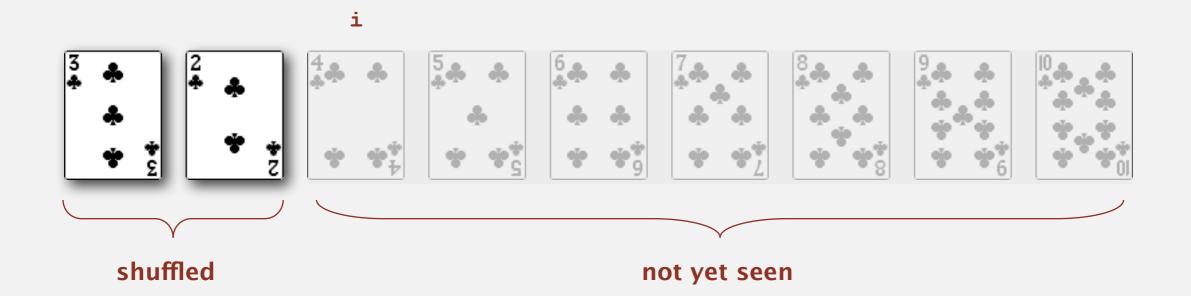
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



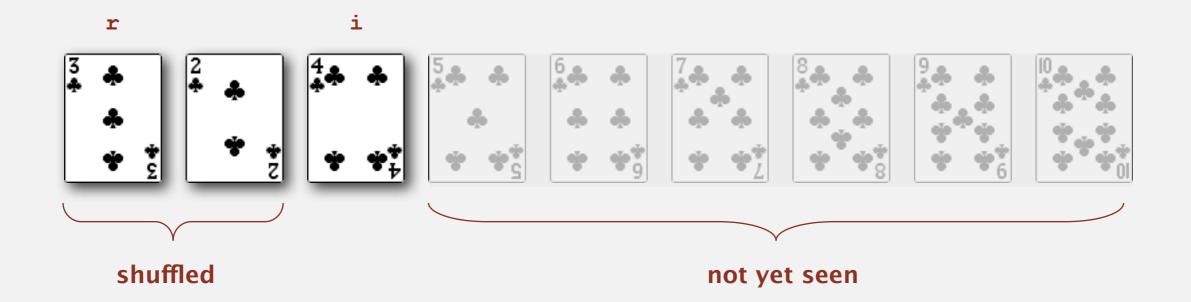
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



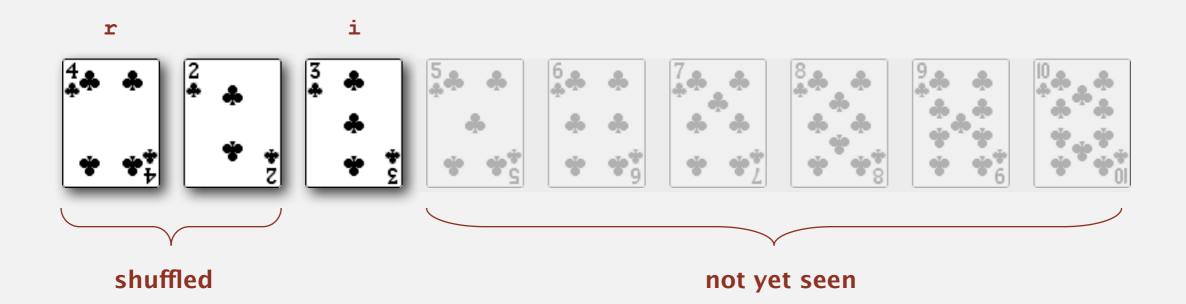
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



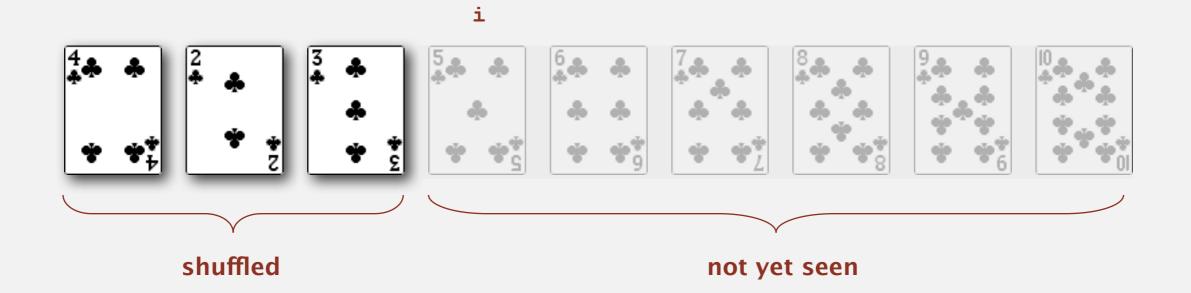
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



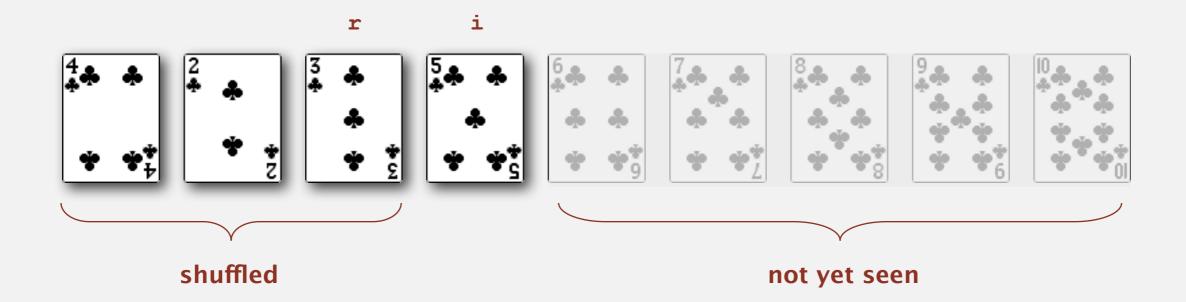
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



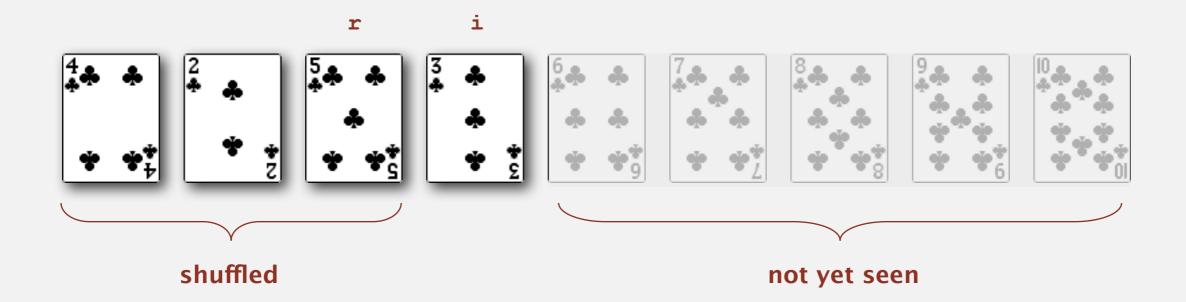
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



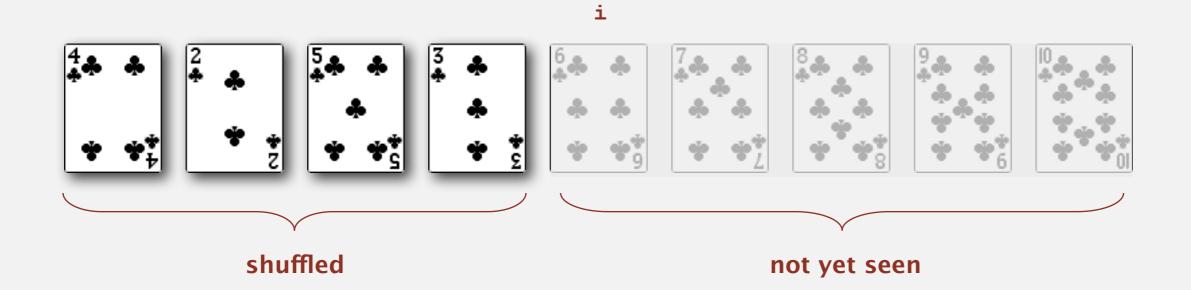
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



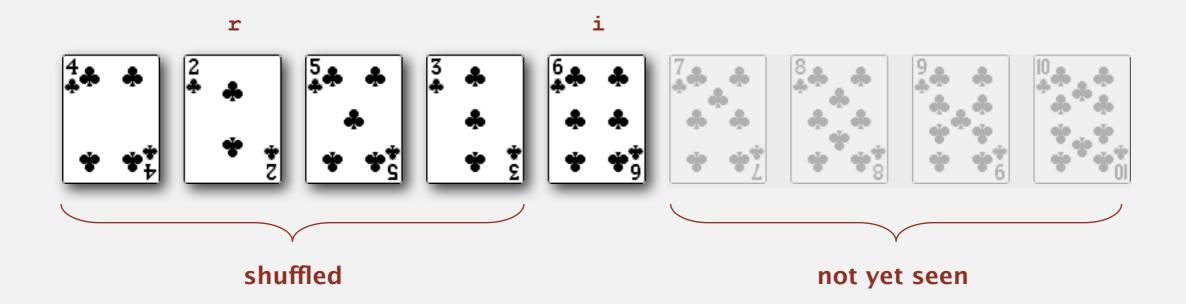
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



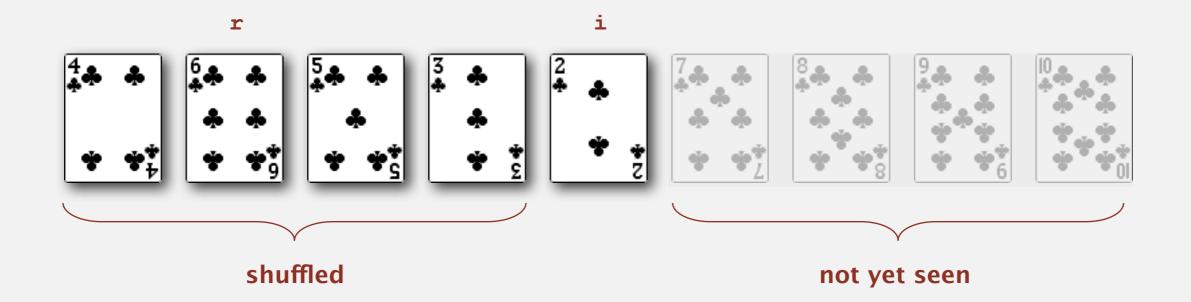
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



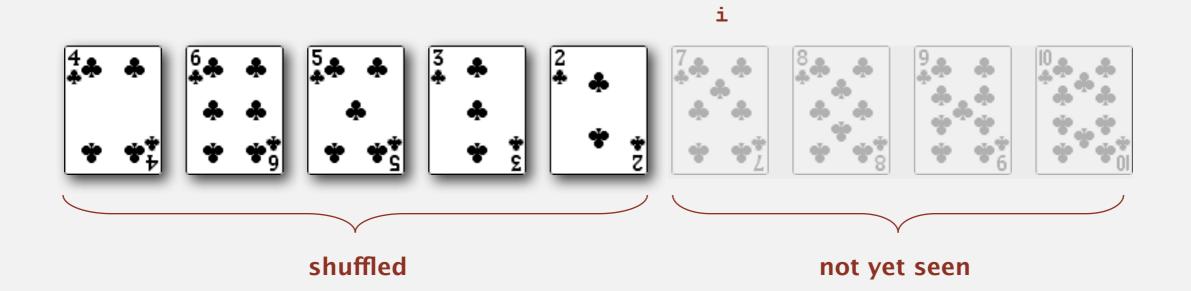
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



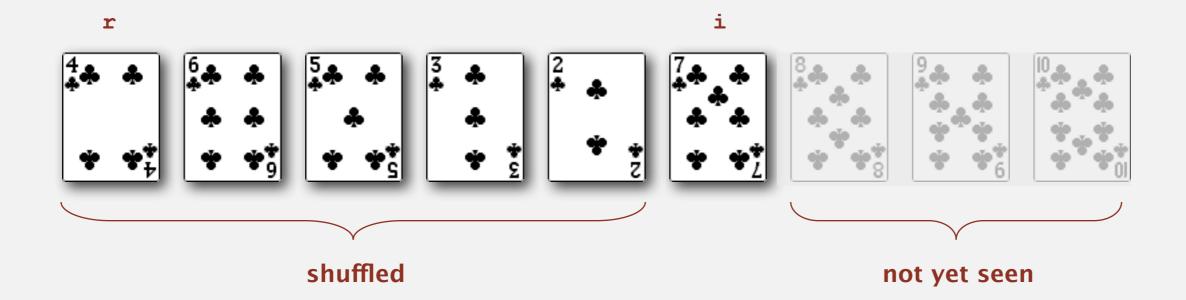
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



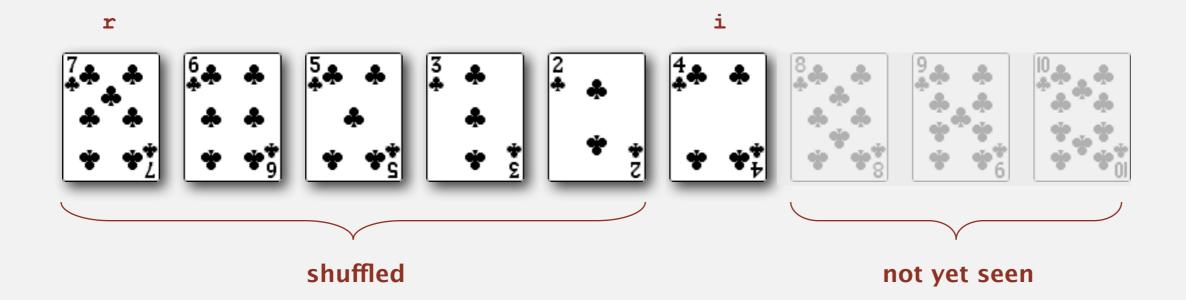
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



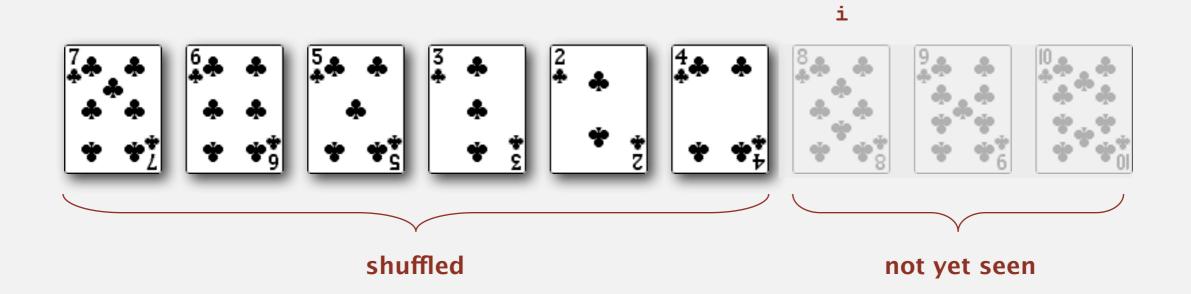
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



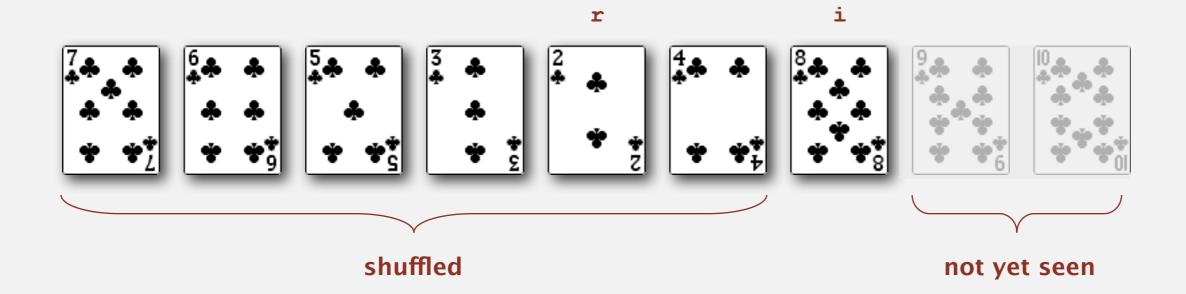
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



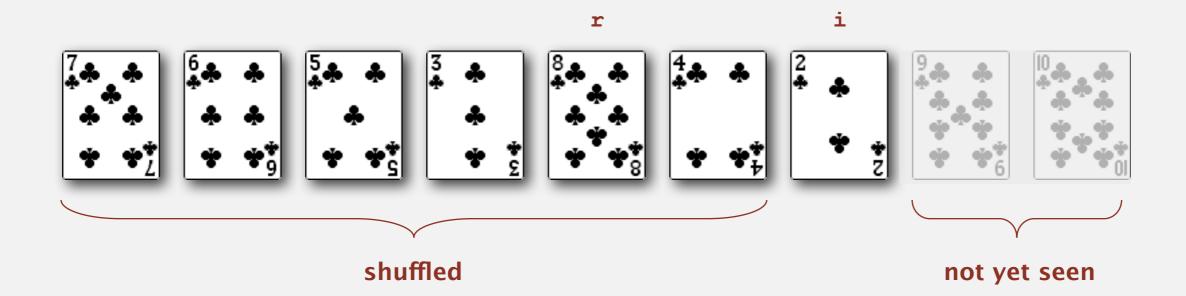
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



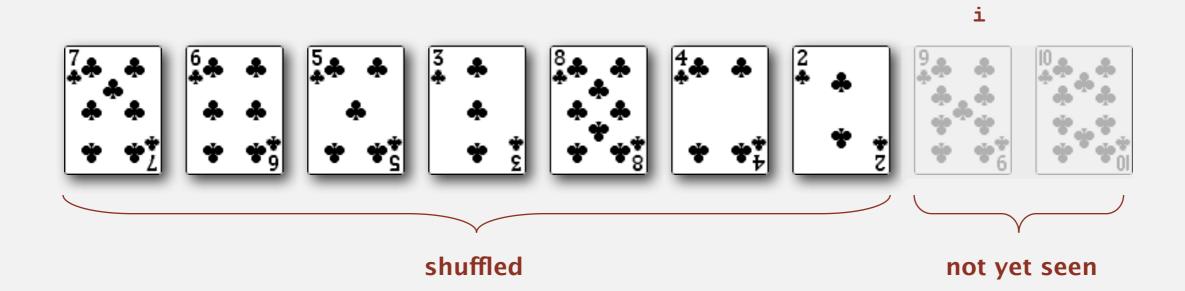
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



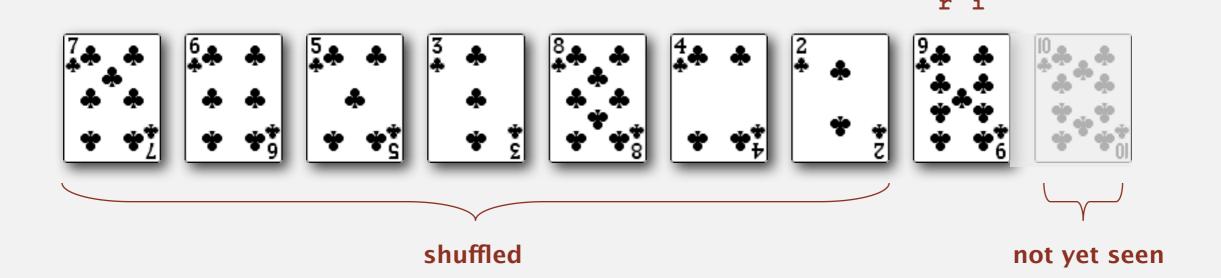
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



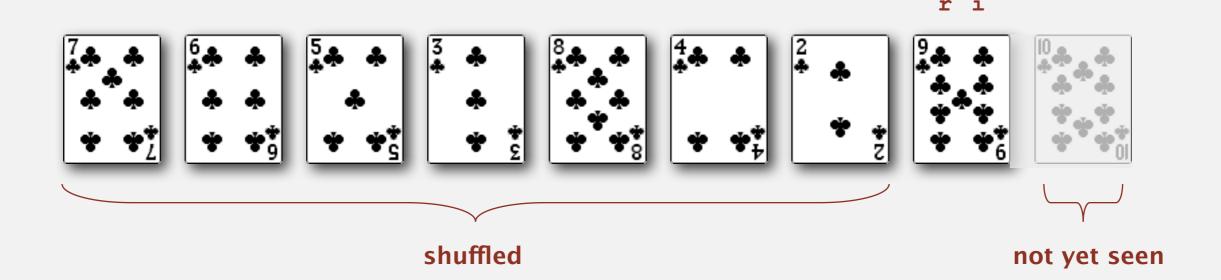
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



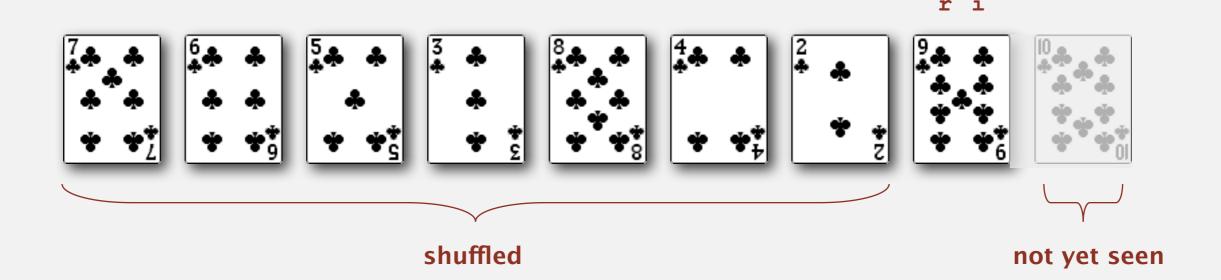
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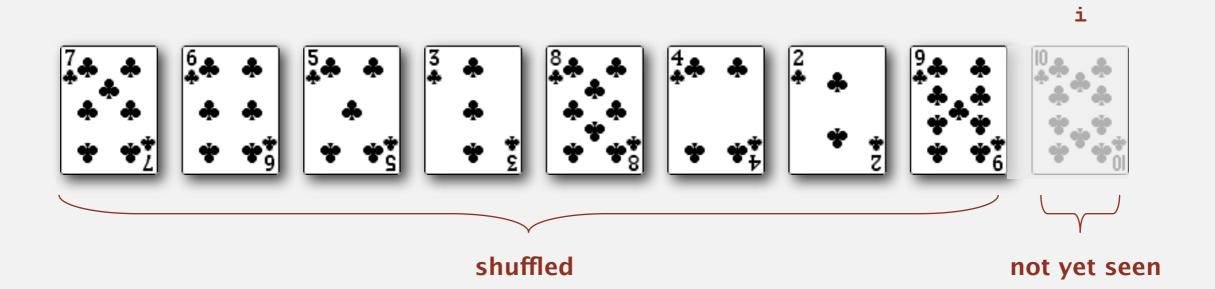
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



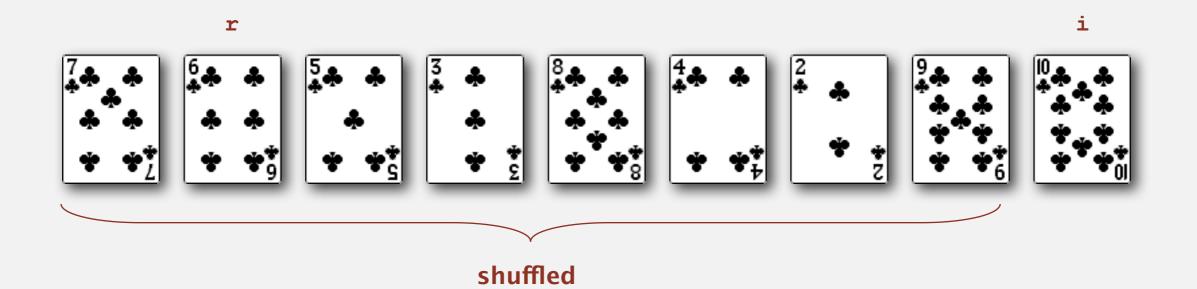
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



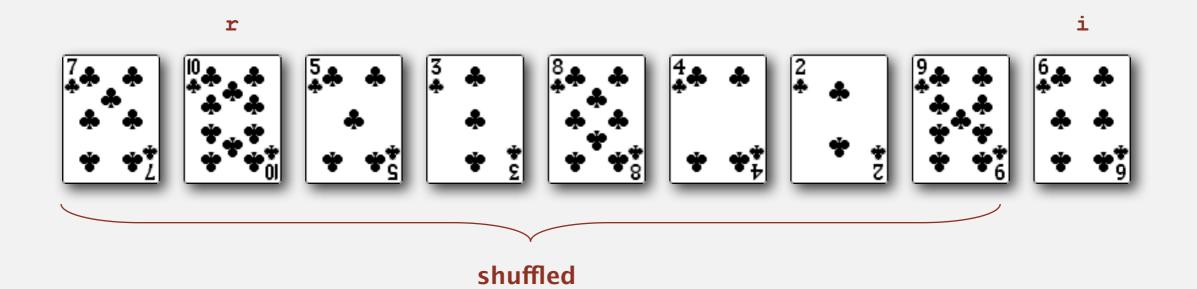
- In iteration i, pick integer r between 0 and i uniformly at random.
- Swap a[i] and a[r].



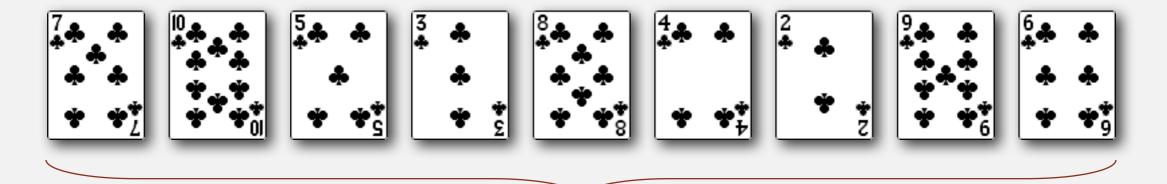
- In iteration i, pick integer r between 0 and i uniformly at random.
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shuffled