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学习

random

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1:

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- ◦

Examples

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Knuth shuffle Durstenfeld-Fisher-Yates shuffle ◦ shuffle_n ◦

java

```
public static void shuffle(E[] deck) {  
  
    //From the end, swap each card with a random card from the unswapped portion.  
    for(int i = deck.length - 1; i > 0; i--)  
    {  
        //Pick an element from [0,i], inclusive.  
        int chosenCard = (int) (Math.random() * (i + 1));  
  
        E temp = deck[i];  
        deck[i] = deck[chosenCard];  
        deck[chosenCard] = temp;  
    }  
}
```

[0i][0i] ◦

O1On ◦ O1 ◦

```
E[] deck;  
int drawIndex;  
  
//Elements are taken from an index that advances.  
public E drawUniqueCard()  
{  
    //Once all cards have been drawn, reshuffle the deck and draw from the top.  
    if(drawIndex == deck.length)  
    {  
        shuffle(deck);  
        drawIndex = 0;  
    }  
    //Pull the next card off the deck.  
    return deck[drawIndex++];  
}
```

<https://riptutorial.com/zh-CN/random/topic/9484/>

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