무료 전자 책

배우기

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Examples

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Knuth Durstenfeld-Fisher-Yates . `n` . .

:

```
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;
    }
}
```

: [0, i] [0, i] . . .

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```
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/ko/random/topic/9484/-

S. No		Contributors
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