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```
X = ceil(52*rand(1,n)); aces = (1 <= X &  
X <= 4); naces = sum(aces);
```

```
fprintf( ' There were %g aces in %g  
draws.\n ' ,naces,n) In Example 1.12, we
```

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showed that the probability of drawing an ace is $1/13 \approx 0.0769$. Hence, if we repeat the experiment of drawing a card 10000 times, we expect to see about 769 aces.

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$n=1$ B_n if and only if $f(x) \in B_n$ for all n ; i.e., if and only if $x \in \bigcap_{n=1}^{\infty} B_n$ for all n . But this says that $x \in \bigcap_{n=1}^{\infty} f^{-1}(B_n)$. 16. If $B = \bigcup_{i=1}^{\infty} \{b_i\}$ and $C = \bigcup_{i=1}^{\infty} \{c_i\}$, put $a_{2i} := b_i$ and $a_{2i-1} := c_i$. Then $A = \bigcup_{i=1}^{\infty} \{a_i\} = B \cup C$ is countable. 17. Since each C_i is countable, we can write $C_i = \bigcup_{j=1}^{\infty} \{c_{ij}\}$. It then follows that $B := \bigcup_{i=1}^{\infty} C_i = \bigcup_{i=1}^{\infty} \bigcup_{j=1}^{\infty} \{c_{ij}\} \dots$

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