

```

2      if (n<=0)
3          throw new IllegalArgumentException("n_must_be_positive");
4
5      if ((n & -n) == n) // i.e., n is a power of 2
6          return (int)((n * (long)next(31)) >> 31);

```



```

9      do {
10         bits = next(31);
11         val = bits % n;

```