```
Monday, November 21, 2022 11:00 AM
```

```
PA8 due temorier

PA5 Late/Resubnit due temorier

Holiday => 7 hay/Friday

PA7/PA8 Late/Resubnit => due Friday of Week 10
```

Create a RandomStream class that generates random numbers in an enhanced for loop:

Generating a random number:

From java.util.*

class Random

public int nextInt(int bound)

Returns a pseudorandom, uniformly distributed int value between <u>0 (inclusive</u>) and the specified value (exclusive), drawn from this random number generator's sequence.

Random random:

int value = random.nextInt(100); //random number between 0 and 99

Note: always use a field, never create a new one over and over again in a loop.

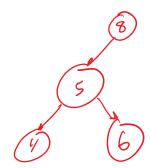
```
RandomStream r = new RandomStream(10, 100);
for (Integer i : r) {
  System.out.println(i);
class inglements Itemble 4 Integer >
     int bound;
     int size;
      Random Number;
      public Rondon Streem ( int siec , int Loud ) &
          th/5. 5/20 = 5/36)
          this board = boud;
           Number = New Rondom ()',
      Class Random Iterator implements Iterator < Integer ?
          int current = 0;
          public barlean has Next () 9
             returnthis current 2 7120;
          public Inteser Next() ?

int value = Number. Next Int (bound)

this. convert += 1;
                return value;
           5
       public Iterator = Integer > iterator () &
            return New Random Iterator ();
```

band -1

How would we make a BST iterator?



pre-traversal postin-orda

Iterator class
La Sace State
La create an array list
La pill Al W an imorder transport
La fill Al W an imorder transport
La ferator a Next/hosNext some as AList

How would we make a Heap iterator?

- 1) copy the heap into the iterator
 Ly use the policy of the copy in wext
 Ly all elements hop order
- 2) copy the array into the iterator

 La sort array in heap order

 La in wext(), just use the array

 like Alich version the iterator