```
/*--- HW11. java ---*/
public class HW11 {
 public static void main(String[] args) {
   Categorizer C = new Categorizer();
   C.add(new RecogASCII());
   C.add(new RecogJPG());
   C.add(new RecogPDF()); //added functionality for PDF detection
   C.printCategories(System.in);
/*--- RecogPDF.java ---*/
/**
 * PDF Header is %PDF or 25 50 44 46
 * This recognizer check whether the first 4 bytes match this header
public class RecogPDF extends RecogASCII {
 private static int[] header = { 0x25, 0x50, 0x44, 0x46 };
 private int i = 0;
   * Returns the name of this type
   * "PDF"
 public String getName() {
   return "PDF";
  ^{\star} Function to ensure that header either matches or not matches a PDF
 public void feed(int nextByte) {
   if (getState() == 2) {
     if (nextByte != header[i]) {
       setState(0);
   i++;
   if ((i > 3) && (getState() != 0)) {
      setState(1);
   * Returns whether or not this is a PDF or not
 boolean decision() {
   return getState() == 1;
```

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Pile Edit View Search Terminal Help
m2024300mich302csd07u:~/ic211/hw115 curl -s http://faculty.cs.usna.edu/IC211/d
```

m202430@mich302csd07u:~/ic211/hw11\$

m202430@mich302csd07u:~/ic211/hw11\$ curl -s http://faculty.cs.usna.edu/IC211/docs/hw11in1 | java HW11
JPG
m202430@mich302csd07u:~/ic211/hw11\$ curl -s http://faculty.cs.usna.edu/IC211/docs/hw11in2 | java HW11
PDF
m202430@mich302csd07u:~/ic211/hw11\$ curl -s http://faculty.cs.usna.edu/IC211/docs/hw11in3 | java HW11
ASCII
m202430@mich302csd07u:~/ic211/hw11\$ curl -s http://faculty.cs.usna.edu/IC211/docs/hw11in4 | java HW11
ASCII