Code:

```
import java.io.BufferedReader;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
import java.util.HashMap;

public class pass2 {

	public static void main(String[] Args) throws IOException {

		BufferedReader b1 = new BufferedReader(new
FileReader("/home/student/Downloads/intermediate.txt.txt"));
		BufferedReader b2 = new BufferedReader(new
FileReader("/home/student/Downloads/symtab.txt.txt"));
		BufferedReader b3 = new BufferedReader(new
FileReader("/home/student/Downloads/littab.txt.txt"));
		FileWriter f1 = new FileWriter("/home/student/Desktop/p2_7.txt");
		HashMap<Integer, String> symSymbol = new HashMap<Integer, String>();
		HashMap<Integer, String> litSymbol = new HashMap<Integer, String>();
		HashMap<Integer, String> litAddr = new HashMap<Integer, String>();
		String s;
		int symtabPointer = 1, littabPointer = 1, offset;
		while ((s = b2.readLine()) != null) {
			String word[] = s.split("\t\t\t");
			symSymbol.put(symtabPointer++, word[0]);
		}
		while ((s = b3.readLine()) != null) {
			String word[] = s.split("\t\t");
			litSymbol.put(littabPointer, word[0]);
			litAddr.put(littabPointer++, word[1]);
		}
		while ((s = b1.readLine()) != null) {
			if (s.substring(1, 6).compareToIgnoreCase("IS,00") == 0) {
				f1.write("+ 00 0 000\n");
			} else if (s.substring(1, 3).compareToIgnoreCase("IS") == 0) {
				f1.write("+ " + s.substring(4, 6) + " ");
				if (s.charAt(9) == ')') {
					f1.write(s.charAt(8) + " ");
					offset = 3;
				} else {
					f1.write("0 ");
					offset = 0;
				}
				if (s.charAt(8 + offset) == 'S')
					f1.write(symSymbol.get(Integer.parseInt(s.substring(10
+ offset, s.length() - 1))) + "\n");
				else
					f1.write(litAddr.get(Integer.parseInt(s.substring(10 +
offset, s.length() - 1))) + "\n");
			} else if (s.substring(1, 6).compareToIgnoreCase("DL,01") == 0) {
				String s1 = s.substring(10, s.length() - 1), s2 = "";
				for (int i = 0; i < 3 - s1.length(); i++)
					s2 += "0";
				s2 += s1;
				f1.write("+ 00 0 " + s2 + "\n");
			} else {
				f1.write("\n");
			}
		}
		f1.close();
		b1.close();
		b2.close();
		b3.close();
	}
}
```

Data of symtab.txt.txt:-

| | | |
|---|---|---|
| A | 211 | 1 |
| LOOP | 202 | 1 |
| B | 212 | 1 |
| NEXT | 208 | 1 |
| BACK | 202 | 1 |
| LAST | 210 | 1 |

Data of intermediate.txt.txt:-

```
(AD,01)(C,200)
(IS,04)(1)(L,1)
(IS,05)(1)(S,1)
(IS,04)(1)(S,1)
(IS,04)(3)(S,3)
(IS,01)(3)(L,2)
(IS,07)(6)(S,4)
(DL,01)(C,5)
(DL,01)(C,1)
(IS,02)(1)(L,3)
(IS,07)(1)(S,5)
(IS,00)
(AD,03)(S,2)+2
(IS,03)(3)(S,3)
(AD,03)(S,6)+1
(DL,02)(C,1)
(DL,02)(C,1)
(AD,02)
(DL,01)(C,1)
```

Data of littab.txt.txt:-

| | |
|---|---|
| 5 | 206 |
| 1 | 207 |
| 1 | 213 |

Output:

```
+ 04 1 206
+ 05 1 A
+ 04 1 A
+ 04 3 B
+ 01 3 207
+ 07 6 NEXT
+ 00 0 005
+ 00 0 001
+ 02 1 213
+ 07 1 BACK
+ 00 0 000

+ 03 3 B



+ 00 0 001
```