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Class : TE A

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Pass II

//Java code for Pass II

```java
import java.io.*;
import java.util.*;

class Darshan
{
public static void main(String args[])throws Exception
{

String s;
String s1[]=new String[70];
String s2[]=new String[70];
String s3[]=new String[70];


FileWriter file1=new FileWriter("Machine_opcode.txt");
BufferedWriter buff1=new BufferedWriter(file1);
buff1.write(".............MachineOpcodeTable...............");

FileReader file2=new FileReader("Intermediate.txt");
BufferedReader buff2=new BufferedReader(file2);

FileReader file3=new FileReader("Symbol.txt");
BufferedReader buff3=new BufferedReader(file3);

FileReader file4=new FileReader("Literal.txt");
BufferedReader buff4=new BufferedReader(file4);

int m=0;
while((s=buff2.readLine())!=null)
{


StringTokenizer st=new StringTokenizer(s);
```

```java
while(st.hasMoreTokens())
{
s1[m]=st.nextToken();
m++;
}
}
int m1=0;
while((s=buff3.readLine())!=null)
{

StringTokenizer st=new StringTokenizer(s);
while(st.hasMoreTokens())
{
s2[m1]=st.nextToken();
m1++;
}
}
int m2=0;
while((s=buff4.readLine())!=null)
{

StringTokenizer st=new StringTokenizer(s);
while(st.hasMoreTokens())
{
s3[m2]=st.nextToken();
m2++;
}
}

for(int i=0;i<m;i++)
{
if("AD".equals(s1[i]) && "01".equals(s1[i+1]))
{
buff1.write("");
buff1.newLine();
}
if("RG".equals(s1[i])||"RG".equals(s1[i])||"RG".equals(s1[i])||"RG".equals(s1[i])
)
{

buff1.write("\t"+s1[i+1]);
buff1.write(" ");
buff1.write(" ");
}
```

```java
}
if("IS".equals(s1[i]))
{
buff1.newLine();
buff1.write(s1[i-1]+"\t");
buff1.write(s1[i+1]);
}

if("L".equals(s1[i]))
{
if("IS".equals(s1[i-4]))
{

for(int j=0;j<m2;j++)
{
if(s1[i+1].equals(s3[j]))
{

buff1.write(s3[j]);
}

}
}
}

if("S".equals(s1[i]))
{

for(int j=0;j<m1;j++)
{
if(s1[i+1].equals(s2[j]))
{
buff1.write(s2[j]+"\t");
}

}
}
}

buff1.close();
buff2.close();
buff3.close();
buff4.close();
}
```

```
}
```

#Input files:

1.Symbol.txt

………Symbol Table……..

1 RESULT 200

2 S 207

3 T 208

2.Literal.txt

.......Literals Table.......

1 =10

2 =9

3.Intermediate.txt

......Intermediate code......

AD   01   C 200

200 IS 05 RG 01 L 1

201 IS 06 RG 02 S 1

202 IS 03 RG 01 L 2

203 AD 04 RG 01 L 2

204 IS 06 RG 01 S 1

205

206 IS 02

207 DL 01

208 DL 02

209   AD   02

210   AD   02

#Output files:

1.Machine_opcode.txt

............MOT..............

200   05   01 1
201   06   02 1
202   03   01 2   01
204   06   01 1
206   02