Anexo3

```
==> tmp/block1.java <==
package tmp;
class Block1{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
a=0;
case 3:
b=0;
case 4:
b=1;
case 6:
a=2;
case 7:
b=3;
case 8:
a=a+1;
case 9:
b=b+1;
case 5:
a=a+1;
case 10:
b=b+1;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int b;
public static int a;
}

==> tmp/exemplo1.java <==
package tmp;
class Exemplo1{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
r=a;
case 3:
dd=d;
case 4:
if ( !(dd <= r) ) {
 gotoL = 5;
 break;
 }
case 6:
dd=2*dd;
case -1:
 gotoL = 4;
 break;
case 5:
if ( !(dd != r) ) {
 gotoL = 2;
 break;
 }
case 7:
dd=dd/2;
case 8:
if ( !(dd <= r) ) {
 gotoL = 5;
 break;
 }
case 9:
r=r-dd;
case -2:
 gotoL = 5;
 break;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int dd;
public static int r;
public static int d;
public static int a;
}

==> tmp/exemplo2.java <==
package tmp;
class Exemplo2{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
prod=0;
case 3:
i=1;
case 4:
t1=i*8;
t2=a[t1];
t3=i*8;
t4=b[t3];
t5=t2*t4;
prod=prod+t5;
case 6:
i=i+1;
case 5:
if ( i <= 20 ) {
 gotoL = 4;
 break;
 }
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int b[] = new int[10000];
public static int t3;
public static int t2;
public static int t1;
```

```
public static int a[] = new int[10000];
public static int t4;
public static int t5;
public static int prod;
public static int i;
}

==> tmp/exemplo3.java <==
package tmp;
class Exemplo3{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
i=0;
case 3:
if ( !(i < 10) ) {
 gotoL = 4;
 break;
 }
case 5:
j=0;
case 6:
if ( !(j < 10) ) {
 gotoL = 7;
 break;
 }
case 8:
t1=i*80;
t2=j*8;
t3=t1+t2;
a[t3]=0;
case 9:
j=j+1;
case -1:
 gotoL = 6;
 break;
case 7:
i=i+1;
case -2:
 gotoL = 3;
 break;
case 4:
i=0;
case 10:
if ( !(i < 10) ) {
 gotoL = 2;
 break;
 }
case 11:
t4=i*80;
t5=i*8;
t6=t4+t5;
a[t6]=1;
case 12:
i=i+1;
case -3:
 gotoL = 10;
 break;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int t1;
public static int a[] = new int[10000];
public static int t4;
public static int t5;
public static int t6;
public static int j;
public static int i;
}

==> tmp/exemplo4.java <==
package tmp;
class Exemplo4{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
case 3:
if ( peek == BLANK ) {
 gotoL = 7;
 break;
 }
if ( !(peek == TAB) ) {
 gotoL = 6;
 break;
 }
case 7:
case 5:
gotoL = 4;
 break;
case 6:
if ( !(peek == NEWLINE) ) {
 gotoL = 9;
 break;
 }
case 8:
line=line+1;
case -1:
 gotoL = 4;
 break;
case 9:
gotoL = 2;
 break;
case 4:
peek=readch;
case -2:
 gotoL = 1;
 break;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int readch;
public static int line;
```

```
public static int TAB;
public static int peek;
public static int BLANK;
public static int NEWLINE;
}

==> tmp/exemplo.java <==
package tmp;
class Exemplo{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
case 3:
i=i+1;
case 5:
t1=i*8;
t2=a[t1];
if ( t2 < v ) {
 gotoL = 3;
 break;
 }
case 4:
j=j-1;
case 7:
t3=j*8;
t4=a[t3];
if ( t4 > v ) {
 gotoL = 4;
 break;
 }
case 6:
if ( !(i >= j) ) {
 gotoL = 8;
 break;
 }
case 9:
gotoL = 2;
 break;
case 8:
t5=i*8;
x=a[t5];
case 10:
t6=i*8;
t7=j*8;
t8=a[t7];
a[t6]=t8;
case 11:
t9=j*8;
a[t9]=x;
case -1:
 gotoL = 1;
 break;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int a[] = new int[10000];
public static int t1;
public static int j;
public static int i;
public static int v;
public static int t4;
public static int t5;
public static int t6;
public static int t7;
public static int t8;
public static int t9;
public static int x;
}

==> tmp/expr1.java <==
package tmp;
class Expr1{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
i=0;
case 3:
i=365;
case 4:
x=0.0;
case 5:
x=3.1415896;
case 6:
b=true;
case 7:
b=false;
case 8:
i=(int)x;
case 9:
x=(double)i;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static boolean b;
public static double x;
public static int i;
}

==> tmp/expr2.java <==
package tmp;
class Expr2{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
a=b+c;
case 3:
a=b-c;
case 4:
a=b*c;
```

```
case 5:
a=b/c;
case 6:
a=minusb;
case 7:
t1=a-b;
d=t1-c;
case 8:
t2=a*b;
d=t2*c;
case 9:
t3=b*c;
d=a+t3;
case 10:
t4=a*b;
d=t4+c;
case 11:
t5=a-b;
d=t5-c;
case 12:
t6=b-c;
d=a-t6;
case 13:
t7=a+b;
d=t7*c;
case 14:
t8=b+c;
d=a*t8;
case 15:
t9=b*b;
t10=4.0*a;
t11=t10*c;
term=t9-t11;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int d;
public static int t1;
public static double t10;
public static double t11;
public static int b;
public static int c;
public static int a;
public static int minusb;
public static double term;
public static int t4;
public static int t5;
public static int t6;
public static int t7;
public static int t8;
public static int t9;
}

==> tmp/expr3.java <==
package tmp;
class Expr3{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
if ( x < y ) {
 gotoL = 4;
 break;
 }
t1=true;
case -1:
 gotoL = 5;
 break;
case 4:
t1=false;
case 5:
r=t1;
case 3:
if ( !(x == y) ) {
 gotoL = 7;
 break;
 }
t2=true;
case -2:
 gotoL = 8;
 break;
case 7:
t2=false;
case 8:
r=t2;
case 6:
if ( x > y ) {
 gotoL = 11;
 break;
 }
case 10:
r=true;
case -3:
 gotoL = 9;
 break;
case 11:
r=false;
case 9:
if ( !(x != y) ) {
 gotoL = 13;
 break;
 }
case 12:
r=true;
case -4:
 gotoL = 2;
 break;
case 13:
r=false;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static boolean t2;
public static boolean t1;
public static boolean r;
public static int y;
```

```
public static int x;
}

==> tmp/expr4.java <==
package tmp;
class Expr4{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
t1=i*12;
t2=j*4;
t3=t1+t2;
t4=a[t3];
x=c+t4;
case 3:
t5=i*12;
t6=j*4;
t7=t5+t6;
a[t7]=0;
case 4:
t8=i*100;
t9=j*10;
t10=t8+t9;
t11=k*1;
t12=t10+t11;
b[t12]=true;
case 5:
t13=i*100;
t14=j*10;
t15=t13+t14;
t16=k*1;
t17=t15+t16;
d=b[t17];
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int a[] = new int[10000];
public static int t1;
public static boolean b[] = new boolean[10000];
public static boolean d;
public static int t10;
public static int t11;
public static int c;
public static int t12;
public static int t13;
public static int t14;
public static int t15;
public static int t16;
public static int t17;
public static int j;
public static int k;
public static int i;
public static int t4;
public static int t5;
public static int t6;
public static int t7;
public static int t8;
public static int t9;
public static int x;
}

==> tmp/identity1.java <==
package tmp;
class Identity1{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
i=0;
case 3:
if ( !(i < 10) ) {
 gotoL = 4;
 break;
 }
case 5:
j=0;
case 6:
if ( !(j < 10) ) {
 gotoL = 7;
 break;
 }
case 8:
t1=i*80;
t2=j*8;
t3=t1+t2;
a[t3]=0.0;
case 9:
j=j+1;
case -1:
 gotoL = 6;
 break;
case 7:
i=i+1;
case -2:
 gotoL = 3;
 break;
case 4:
i=0;
case 10:
if ( !(i < 10) ) {
 gotoL = 2;
 break;
 }
case 11:
t4=i*80;
t5=i*8;
t6=t4+t5;
a[t6]=1.0;
case 12:
i=i+1;
case -3:
 gotoL = 10;
 break;
case 2:
stop = true;
}
```

```
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int t1;
public static double a[] = new double[10000];
public static int t4;
public static int t5;
public static int t6;
public static int j;
public static int i;
}

==> tmp/identity2.java <==
package tmp;
class Identity2{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
i=0;
case 3:
case 5:
j=0;
case 6:
case 8:
t1=i*80;
t2=j*8;
t3=t1+t2;
a[t3]=0.0;
case 9:
if ( !(j >= 10) ) {
 gotoL = 6;
 break;
 }
case 10:
gotoL = 7;
 break;
case -1:
 gotoL = 6;
 break;
case 7:
if ( !(i >= 10) ) {
 gotoL = 3;
 break;
 }
case 11:
gotoL = 4;
 break;
case -2:
 gotoL = 3;
 break;
case 4:
i=0;
case 12:
case 13:
t4=i*80;
t5=i*8;
t6=t4+t5;
a[t6]=1.0;
case 14:
if ( !(i >= 10) ) {
 gotoL = 12;
 break;
 }
case 15:
gotoL = 2;
 break;
case -3:
 gotoL = 12;
 break;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int t1;
public static double a[] = new double[10000];
public static int t4;
public static int t5;
public static int t6;
public static int j;
public static int i;
}

==> tmp/jump1.java <==
package tmp;
class Jump1{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
case 4:
a=0;
case 3:
gotoL = 5;
 break;
case 6:
x=0;
case 5:
if ( !(a < b) ) {
 gotoL = 7;
 break;
 }
case 8:
a=b;
case 7:
if ( !(x <= y) ) {
 gotoL = 9;
 break;
 }
case 10:
x=y;
case 9:
if ( !(a == b) ) {
 gotoL = 11;
 break;
 }
```

```
case 12:
a=b;
case 11:
if ( !(x != y) ) {
 gotoL = 13;
 break;
 }
case 14:
x=y;
case 13:
if ( !(a >= b) ) {
 gotoL = 15;
 break;
 }
case 16:
b=a;
case 15:
if ( !(x > y) ) {
 gotoL = 17;
 break;
 }
case 18:
y=x;
case 17:
if ( !(a == b) ) {
 gotoL = 19;
 break;
 }
case 20:
case 19:
if ( x < 100 ) {
 gotoL = 23;
 break;
 }
if ( !(x > 200) ) {
 gotoL = 21;
 break;
 }
case 23:
case 22:
x=0;
case 21:
if ( !(a < 100) ) {
 gotoL = 24;
 break;
 }
if ( !(a > 200) ) {
 gotoL = 24;
 break;
 }
case 25:
b=0;
case 24:
if ( x < 100 ) {
 gotoL = 28;
 break;
 }
if ( !(x > 200) ) {
 gotoL = 26;
 break;
 }
if ( !(x != y) ) {
 gotoL = 26;
 break;
 }
case 28:
case 27:
x=0;
case 26:
if ( a < 100 ) {
 gotoL = 31;
 break;
 }
if ( !(a > 200) ) {
 gotoL = 32;
 break;
 }
if ( a != 150 ) {
 gotoL = 31;
 break;
 }
case 32:
if ( !(a != 0) ) {
 gotoL = 29;
 break;
 }
case 31:
case 30:
a=0;
case 29:
if ( !(x > 200) ) {
 gotoL = 36;
 break;
 }
if ( x != b ) {
 gotoL = 35;
 break;
 }
case 36:
if ( !(x < 100) ) {
 gotoL = 33;
 break;
 }
case 35:
case 34:
x=0;
case 33:
if ( a < 100 ) {
 gotoL = 38;
 break;
 }
if ( !(a > 200) ) {
 gotoL = 2;
 break;
 }
if ( !(a != b) ) {
 gotoL = 2;
 break;
 }
case 38:
case 37:
a=0;
case 2:
stop = true;
}
}
```

```
}
public static int gotoL=1;
public static int b;
public static int y;
public static int a;
public static int x;
}

==> tmp/jump2.java <==
package tmp;
class Jump2{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
r=true;
case 3:
r=false;
case 4:
if ( !(a < b) ) {
 gotoL = 6;
 break;
 }
t1=true;
case -1:
 gotoL = 7;
 break;
case 6:
t1=false;
case 7:
r=t1;
case 5:
if ( !(x <= y) ) {
 gotoL = 9;
 break;
 }
t2=true;
case -2:
 gotoL = 10;
 break;
case 9:
t2=false;
case 10:
r=t2;
case 8:
if ( !(a == b) ) {
 gotoL = 12;
 break;
 }
t3=true;
case -3:
 gotoL = 13;
 break;
case 12:
t3=false;
case 13:
r=t3;
case 11:
if ( !(x != y) ) {
 gotoL = 15;
 break;
 }
t4=true;
case -4:
 gotoL = 16;
 break;
case 15:
t4=false;
case 16:
r=t4;
case 14:
if ( !(a >= b) ) {
 gotoL = 18;
 break;
 }
t5=true;
case -5:
 gotoL = 19;
 break;
case 18:
t5=false;
case 19:
r=t5;
case 17:
if ( !(x > y) ) {
 gotoL = 21;
 break;
 }
t6=true;
case -6:
 gotoL = 22;
 break;
case 21:
t6=false;
case 22:
r=t6;
case 20:
if ( x < 100 ) {
 gotoL = 26;
 break;
 }
if ( !(x > 200) ) {
 gotoL = 24;
 break;
 }
case 26:
t7=true;
case -7:
 gotoL = 25;
 break;
case 24:
t7=false;
case 25:
r=t7;
case 23:
if ( !(a < 100) ) {
 gotoL = 28;
 break;
 }
if ( !(a > 200) ) {
 gotoL = 28;
 break;
 }
t8=true;
```

```
case -8:
 gotoL = 29;
 break;
case 28:
t8=false;
case 29:
r=t8;
case 27:
if ( x < 100 ) {
 gotoL = 33;
 break;
 }
if ( !(x > 200) ) {
 gotoL = 31;
 break;
 }
if ( !(x != y) ) {
 gotoL = 31;
 break;
 }
case 33:
t9=true;
case -9:
 gotoL = 32;
 break;
case 31:
t9=false;
case 32:
r=t9;
case 30:
if ( a < 100 ) {
 gotoL = 37;
 break;
 }
if ( !(a > 200) ) {
 gotoL = 38;
 break;
 }
if ( a != 150 ) {
 gotoL = 37;
 break;
 }
case 38:
if ( !(a != 0) ) {
 gotoL = 35;
 break;
 }
case 37:
t10=true;
case -10:
 gotoL = 36;
 break;
case 35:
t10=false;
case 36:
r=t10;
case 34:
if ( !(x > 200) ) {
 gotoL = 43;
 break;
 }
if ( x != b ) {
 gotoL = 42;
 break;
 }
case 43:
if ( !(x < 100) ) {
 gotoL = 40;
 break;
 }
case 42:
t11=true;
case -11:
 gotoL = 41;
 break;
case 40:
t11=false;
case 41:
r=t11;
case 39:
if ( a < 100 ) {
 gotoL = 46;
 break;
 }
if ( !(a > 200) ) {
 gotoL = 44;
 break;
 }
if ( !(a != b) ) {
 gotoL = 44;
 break;
 }
case 46:
t12=true;
case -12:
 gotoL = 45;
 break;
case 44:
t12=false;
case 45:
r=t12;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static boolean t3;
public static boolean t2;
public static boolean t1;
public static boolean t10;
public static boolean t11;
public static int b;
public static boolean t12;
public static int a;
public static boolean r;
public static boolean t4;
public static boolean t5;
public static boolean t6;
public static boolean t7;
public static boolean t8;
public static boolean t9;
public static int y;
public static int x;
}
```

```
==> tmp/jump3.java <==
package tmp;
class Jump3{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
r=b;
case 3:
t1=i*1;
r=a[t1];
case 4:
t2=i*1;
a[t2]=b;
case 5:
t3=i*1;
a[t3]=true;
case 6:
t4=i*1;
a[t4]=false;
case 7:
if ( !(b) ) {
 gotoL = 8;
 break;
 }
case 9:
x=y;
case 8:
t5=i*1;
t6=a[t5];
if ( !(t6) ) {
 gotoL = 2;
 break;
 }
case 10:
x=y;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t3;
public static int t2;
public static int t1;
public static boolean a[] = new boolean[10000];
public static boolean b;
public static boolean r;
public static int t4;
public static int t5;
public static boolean t6;
public static int y;
public static int x;
public static int i;
}

==> tmp/merge.java <==
package tmp;
class Merge{
public static void main(String[] args) {
boolean stop=false;
while(!stop){
switch(gotoL){
case 0:
case 1:
t1=1*4;
a[t1]=886;
case 3:
t2=2*4;
a[t2]=777;
case 4:
t3=3*4;
a[t3]=915;
case 5:
t4=4*4;
a[t4]=793;
case 6:
t5=5*4;
a[t5]=335;
case 7:
t6=6*4;
a[t6]=386;
case 8:
t7=7*4;
a[t7]=492;
case 9:
t8=8*4;
a[t8]=137;
case 10:
t9=9*4;
a[t9]=53;
case 11:
t10=10*4;
a[t10]=383;
case 12:
n=10;
case 13:
k=1;
case 14:
if ( !(k < n) ) {
 gotoL = 2;
 break;
 }
case 15:
i=1;
case 16:
t11=i+k;
if ( !(t11 <= n) ) {
 gotoL = 17;
 break;
 }
case 18:
t12=k*2;
u=i+t12;
case 19:
if ( !(u > n) ) {
 gotoL = 20;
 break;
 }
case 21:
u=n+1;
case 20:
l=i;
case 22:
```

```
r=i+k;
case 23:
im=l;
case 24:
jm=r;
case 25:
km=l;
case 26:
if ( !(im < r) ) {
 gotoL = 27;
 break;
 }
if ( !(jm < u) ) {
 gotoL = 27;
 break;
 }
case 28:
t13=im*4;
t14=a[t13];
t15=jm*4;
t16=a[t15];
if ( !(t14 <= t16) ) {
 gotoL = 31;
 break;
 }
case 30:
t17=km*4;
t18=im*4;
t19=a[t18];
b[t17]=t19;
case 32:
im=im+1;
case -1:
 gotoL = 29;
 break;
case 31:
t20=km*4;
t21=jm*4;
t22=a[t21];
b[t20]=t22;
case 33:
jm=jm+1;
case 29:
km=km+1;
case -2:
 gotoL = 26;
 break;
case 27:
if ( !(im < r) ) {
 gotoL = 34;
 break;
 }
case 35:
t23=km*4;
t24=im*4;
t25=a[t24];
b[t23]=t25;
case 36:
im=im+1;
case 37:
km=km+1;
case -3:
 gotoL = 27;
 break;
case 34:
if ( !(jm < u) ) {
 gotoL = 38;
 break;
 }
case 39:
t26=km*4;
t27=jm*4;
t28=a[t27];
b[t26]=t28;
case 40:
jm=jm+1;
case 41:
km=km+1;
case -4:
 gotoL = 34;
 break;
case 38:
km=l;
case 42:
if ( !(km < u) ) {
 gotoL = 43;
 break;
 }
case 44:
t29=km*4;
t30=km*4;
t31=b[t30];
a[t29]=t31;
case 45:
km=km+1;
case -5:
 gotoL = 42;
 break;
case 43:
t32=k*2;
i=i+t32;
case -6:
 gotoL = 16;
 break;
case 17:
k=k*2;
case -7:
 gotoL = 14;
 break;
case 2:
stop = true;
}
}
}
public static int gotoL=1;
public static int t20;
public static int t3;
public static int t21;
public static int t2;
public static int t1;
public static int a[] = new int[10000];
public static int t24;
public static int t25;
public static int t22;
public static int t23;
public static int t28;
```

```
public static int t29;
public static int t26;
public static int t27;
public static int jm;
public static int b[] = new int[10000];
public static int t10;
public static int t11;
public static int t30;
public static int t12;
public static int t31;
public static int t13;
public static int t32;
public static int t14;
public static int t15;
public static int n;
public static int t16;
public static int t17;
public static int l;
public static int t18;
public static int t19;
public static int im;
public static int k;
public static int km;
public static int i;
public static int u;
public static int r;
public static int t4;
public static int t5;
public static int t6;
public static int t7;
public static int t8;
public static int t9;
}
```

O Bytecode abaixo é do programa exemplo2.