Codificação em Linguagem Ada

```
-- ALG01
                              -- ALG06
                                                              -- ALG10
WITH Ada.Text_IO;
                             WITH Ada.Integer_Text_IO;
                                                              WITH Ada.Integer_Text_IO;
USE Ada;
                             USE Ada;
                                                              USE Ada;
PROCEDURE ALG01 IS
                             PROCEDURE ALG06 IS
                                                              PROCEDURE ALG10 IS
                               X : Integer;
                                                                X : Integer;
BEGIN
                                                                Y : Integer;
 Text_IO.Put("Bom dia");
                             BEGIN
                                                               N1 : Integer;
END ALG01;
                               Integer_Text_IO.Get(X);
                               IF (X > 100) THEN
                                                               N2 : Integer;
                                 Integer_Text_IO.Put(X);
                                                             BEGIN
                               END IF;
                                                                Integer_Text_IO.Get(X);
-- ALG02
                             END ALG06;
                                                                Integer_Text_IO.Get(Y);
WITH Ada.Integer_Text_IO;
                                                                IF (X > Y) THEN
                                                                  N1 := Y;
USE Ada;
PROCEDURE ALGO2 IS
                                                                  N2 := X;
 X : Integer;
                              -- ALG07
                                                                ELSE
                                                                  N1 := X;
BEGIN
                             WITH Ada.Integer_Text_IO;
 Integer_Text_IO.Get(X);     USE Ada;
                                                                 N2 := Y;
  Integer_Text_IO.Put(X);
                             PROCEDURE ALG07 IS
                                                               END IF;
END ALG02;
                              X : Integer;
                                                                Integer_Text_IO.Put(N1);
                               Y : Integer;
                                                                Integer_Text_IO.Put(N2);
                               Z : Integer;
                                                              END ALG10;
                             BEGIN
-- ALG03
                               Integer_Text_IO.Get(X);
                               Integer_Text_IO.Get(Y);
WITH Ada.Integer_Text_IO;
                               IF (X > 100) THEN
USE Ada;
                                                              -- ALG11
PROCEDURE ALGO3 IS
                                 Z := X + Y;
                                                              WITH Ada.Integer_Text_IO;
 X : Integer;
                                                              WITH Ada.Text_IO;
                                 Integer_Text_IO.Put(Z);
 Y : Integer;
                               END IF;
                                                              USE Ada;
BEGIN
                             END ALG07;
                                                              PROCEDURE ALG11 IS
                                                                X : Integer;
 Integer_Text_IO.Get(X);
  Y := X ** 2;
                                                                I : Integer;
  Integer_Text_IO.Put(Y);
                                                              BEGIN
END ALG03;
                             -- ALG08
                                                                X := 0;
                             WITH Ada.Integer_Text_IO;
                                                                I := 1;
                                                                WHILE (I <= 10) LOOP
                             USE Ada;
                             PROCEDURE ALGO8 IS
                                                                  Integer_Text_IO.Put(X);
-- ALG04
                               X : Integer;
                                                                  Text_IO.New_Line;
WITH Ada.Integer_Text_IO;
                               Y : Integer;
                                                                 X := X + 2;
                                                                 I := I + 1;
USE Ada;
                             BEGIN
                              Integer_Text_IO.Get(X);
Integer_Text_IO.Get(Y);
PROCEDURE ALG04 IS
                                                               END LOOP;
                                                              END ALG11;
 X : Integer;
  Y : Integer;
                               IF (X <= Y) THEN
 Z : Integer;
                                 Integer_Text_IO.Put(X);
                               ELSE
  Integer_Text_IO.Get(X);
                                 Integer_Text_IO.Put(Y);
                                                              -- ALG12
                                                              WITH Ada.Integer_Text_IO;
  Integer_Text_IO.Get(Y);
                               END IF;
  Z := X + Y;
                             END ALG08;
                                                              WITH Ada.Text_IO;
  Integer_Text_IO.Put(Z);
                                                              USE Ada;
                                                              PROCEDURE ALG12 IS
END ALGO4;
                                                                X : Integer;
                             -- ALG09
                                                                I : Integer;
                             WITH Ada.Integer_Text_IO;
                                                              BEGIN
-- ALG05
                             USE Ada;
                                                                X := 1;
                                                                I := 1;
WITH Ada.Integer_Text_IO;
                             PROCEDURE ALG09 IS
USE Ada;
                              X : Integer;
                                                                WHILE (I <= 10) LOOP
                               Y : Integer;
PROCEDURE ALG05 IS
                                                                  Integer_Text_IO.Put(X);
                             BEGIN
 X : Integer;
                                                                  Text_IO.New_Line;
 Y : Integer;
                               Integer_Text_IO.Get(X);
                                                                  X := X * 2;
 Z : Integer;
                               IF (X \ge 10) THEN
                                                                  I := I + 1;
                                Y := X ** 2;
                                                               END LOOP;
BEGIN
  Integer_Text_IO.Get(X);
                                                             END ALG12;
                               Y := X ** 3;
  Integer_Text_IO.Get(Y);
  Z := X ** 2 + Y ** 2;
                               END IF;
  Integer_Text_IO.Put(Z);
                               Integer_Text_IO.Put(Y);
END ALG05;
                             END ALG09;
```