Codificação em Linguagem Ada

```
-- ALG01
WITH Ada.Text_IO;
USE Ada;
PROCEDURE ALG01 IS
BEGIN
  Text_IO.Put("Bom dia");
END ALG01;
```

```
-- ALG02
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG02 IS
  X : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Integer_Text_IO.Put(X);
END ALG02;
```

```
-- ALG03
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG03 IS
  X : Integer;
  Y : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Y := X ** 2;
  Integer_Text_IO.Put(Y);
END ALG03;
```

```
-- ALG04
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG04 IS
  X : Integer;
  Y : Integer;
  Z : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Integer_Text_IO.Get(Y);
  Z := X + Y;
  Integer_Text_IO.Put(Z);
END ALG04;
```

```
-- ALG05
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG05 IS
  X : Integer;
  Y : Integer;
  Z : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Integer_Text_IO.Get(Y);
  Z := X ** 2 + Y ** 2;
  Integer_Text_IO.Put(Z);
END ALG05;
```

```
-- ALG06
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG06 IS
  X : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  IF (X > 100) THEN
    Integer_Text_IO.Put(X);
  END IF;
END ALG06;
```

```
-- ALG07
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG07 IS
  X : Integer;
  Y : Integer;
  Z : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Integer_Text_IO.Get(Y);
  IF (X > 100) THEN
    Z := X + Y;
    Integer_Text_IO.Put(Z);
  END IF;
END ALG07;
```

```
-- ALG08
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG08 IS
  X : Integer;
  Y : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Integer_Text_IO.Get(Y);
  IF (X <= Y) THEN
    Integer_Text_IO.Put(X);
  ELSE
    Integer_Text_IO.Put(Y);
  END IF;
END ALG08;
```

```
-- ALG09
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG09 IS
  X : Integer;
  Y : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  IF (X >= 10) THEN
    Y := X ** 2;
  ELSE
    Y := X ** 3;
  END IF;
  Integer_Text_IO.Put(Y);
END ALG09;
```

```
-- ALG10
WITH Ada.Integer_Text_IO;
USE Ada;
PROCEDURE ALG10 IS
  X  : Integer;
  Y  : Integer;
  N1 : Integer;
  N2 : Integer;
BEGIN
  Integer_Text_IO.Get(X);
  Integer_Text_IO.Get(Y);
  IF (X > Y) THEN
    N1 := Y;
    N2 := X;
  ELSE
    N1 := X;
    N2 := Y;
  END IF;
  Integer_Text_IO.Put(N1);
  Integer_Text_IO.Put(N2);
END ALG10;
```

```
-- ALG11
WITH Ada.Integer_Text_IO;
WITH Ada.Text_IO;
USE Ada;
PROCEDURE ALG11 IS
  X : Integer;
  I : Integer;
BEGIN
  X := 0;
  I := 1;
  WHILE (I <= 10) LOOP
    Integer_Text_IO.Put(X);
    Text_IO.New_Line;
    X := X + 2;
    I := I + 1;
  END LOOP;
END ALG11;
```

```
-- ALG12
WITH Ada.Integer_Text_IO;
WITH Ada.Text_IO;
USE Ada;
PROCEDURE ALG12 IS
  X : Integer;
  I : Integer;
BEGIN
  X := 1;
  I := 1;
  WHILE (I <= 10) LOOP
    Integer_Text_IO.Put(X);
    Text_IO.New_Line;
    X := X * 2;
    I := I + 1;
  END LOOP;
END ALG12;
```