Codificação de Programas em Português Estruturado

```
Programa ALG6
 Programa ALG1
                                                                                                                                                                  Programa ALG10
  Início
                                                                                                                                                                   Var
                                                                                 Var
        Escreva "Bom dia" X : Inteiro
                                                                                                                                                                 X : Inteiro
                                                                                Início
Leia X
 ricio

Leta X
N1: Inteiro
N1: Inteiro
N2: Inteiro
N2: Inteiro
N2: Inteiro
N3: Inteiro
N4: Infeiro
N5: Infeiro
N6: Infeiro
N7: Inteiro
N8: Inteiro
N8: Inteiro
N9: Infeiro
N9: 
                                                                                                                                                                      Y : Inteiro
  Fim
                                                                                                                                                                     Se (X > Y) Então
       Leia X
                                                                                                                                                                          N1 ← Y
Programa ALG7
        Escreva X
                                                                                                                                                                 Escreva N2
                                                                                                                                                               Programa ALG11
                                                                                                                                                                     X : Inteiro
                                                                                                                                                                      I : Inteiro
Início
                                                                                    Escreva Y
Fim_se
                                                                                                                                                                Programa ALG12
                                                                                                                                                                 Var
                                                                                Fim
                                                                                                                                                                     X : Inteiro
 Programa ALG5
                                                                                                                                                                       I : Inteiro
  Var
       X: Inteiro Programa ALG9 Início
Y: Inteiro Var X ←
Z: Inteiro X: Inteiro I ←
nício V: Inteiro
                                                                             Var X \leftarrow 1 I \leftarrow 1 Y : Inteiro Enquanto (I <= 10) Faça Início
       lício Leia X Início Leia X Leia X X \leftarrow A Z \leftarrow X \uparrow 2 + Y \uparrow 2 Se (X >= 10) Então I \leftarrow I + 1 Fim_enquanto Fim
  Início
  Fim
                                                                                              Y \leftarrow X \uparrow 3
                                                                                        Fim_se
                                                                                        Escreva Y
                                                                                 Fim
```

Programas em Linguagem PASCAL

```
Program ALG01;
                                                                        Program ALG06;
                                                                                                                                              Program ALG10;
                                                                                                                                              Var
Begin
                                                                         Var
                                                                        X : Integer;
                                                                                                                                            X : Integer;
      WriteLn('Bom dia');
End.
                                                                         Begin
                                                                            I : Integer;
N1 : Integer;
If (X > 100) Then
WriteLn(X);
Begin
ReadIn(Y)
                                                                                                                                                 Y : Integer;
Program ALG02;
Var
                                                                        End.
    X : Integer;
                                                                                                                                               ReadLn(Y);
Begin
                                                                                                                                                 If (X > Y) Then
                                             Program ALG07;
                                                                                                                                                       Begin
    ReadLn(X);
                                                                          N1 := Y;
N2 := X;
     WriteLn(X);
                                                                         Var
End.
Program ALG03; Begin
Var
   X: Integer;
Y: Integer;
Begin
ReadLn(X);
Y:= X * X;
WriteLn(Y);
Begin
                                                            Wr:
End;
                                                                     End.
End.
                                                                                                                                            Program ALG11;
                                                                                                                                             Var
Program ALG04; Program ALG08; X: Integer; Var I: Integer;
    Begin
                                                                                  WriteLn(Y); End;
End.
                                                                        End.
Program ALG05;
Var
                                                                        Program ALG09;
                                                                                                                                          Program ALG12;
    X: Integer;
Y: Integer;
Z: Integer;
                                                                        Var
                                                                                                                                           Var
                                                                                                                                            X : Integer;
     Y: Integer;
Y: Integer;
X: Integer;
X: Integer;
Y: Integer;
Egin
ReadLn(X);
ReadLn(X);
ReadLn(Y);
Z:= X * X + Y * Y;
Y:= X * X
While (I <= 10) Do
WriteLn(Z):
ReadIn(X);
Flise
ReadIn(X)
ReadIn(X);
Flise
ReadIn(X)
ReadIn(X);
Flise
ReadIn(X)
ReadIn(X);
ReadIn(X);
Flise
ReadIn(X)
ReadIn(X);
ReadIn(X);
Flise
ReadIn
ReadIn(X);
Re
Begin
                                                                                    Y := X * X * X;

riteLn(Y);

x ·=
     WriteLn(Z);
                                                                               Else
End.
                                                                                                                                                       WriteLn(X);
                                                                              WriteLn(Y);
                                                                                                                                                            X := X * 2;
                                                                                                                                                              I := I + 1;
                                                                         End.
                                                                                                                                                        End;
                                                                                                                                             End.
```

Codificação de Programas em Linguagem Structured BASIC

```
REM ALG06

DIM x AS INTEGER

INPUT x

DIM y AS INTEGER

DIM y AS INTEGER

DIM n1 AS INTEGER

PRINT x

DIM n2 AS INTEGER

INPUT x

INPUT x
 REM ALG01
 PRINT "Bom dia"
 END
                                       END IF
 REM ALG02
                                                                                 INPUT y
 DIM x AS INTEGER
                                         END
                                                                                IF (x > y) THEN
 INPUT x
                                                                                     n1 = y
PRINT x
REM ALGO7

DIM x AS INTEGER

DIM y AS INTEGER

REM ALGO3

DIM z AS INTEGER

DIM z AS INTEGER

DIM y AS INTEGER

DIM y AS INTEGER

DIM y AS INTEGER

DIM y AS INTEGER

INPUT x

END IF

PRINT n1

INPUT x

y = x ^ 2

PRINT y

END

END

END

END

END
                                         REM ALGO7
END
                                                                                      n2 = x
                                                                               REM ALG11
                                         END
                                                                                DIM x AS INTEGER
REM ALG04
                                                                               DIM i AS INTEGER
DIM i AS INTEGE

DIM x AS INTEGER

REM ALGO8

DIM y AS INTEGER

DIM x AS INTEGER

DIM x AS INTEGER

DIM x AS INTEGER

i = 1

DIM z AS INTEGER

DIM y AS INTEGER

WHILE (i <= 10)

INPUT x

INPUT y

INPUT y

x = x + 2
                         INPUT y x = x + 2

IF (x \le y) THEN i = i + 1

PRINT X

WEND
 z = x + y
PRINT z
END
                                          ELSE
                                                                               END
                                          PRINT y
                                          END IF
REM ALG05
                                                                                REM ALG12
                                         END
DIM x AS INTEGER
                                                                                DIM x AS INTEGER
DIM i AS INTEGE

DIM z AS INTEGER

REM ALGO9

X = 1

INPUT x

DIM x AS INTEGER

i = 1

INPUT y

DIM y AS INTEGER

WHILE (i <= 10)

Z = x ^ 2 + y ^ 2

INPUT x

PRINT z
                                                                               DIM i AS INTEGER
DIM y AS INTEGER
                                         IF (x >= 10) THEN

y = x ^ 2
                                                                                     x = x * 2
PRINT z
                                                                                i = i + 1
 END
                                                                               WEND
                                          ELSE
                                               y = x ^3
                                                                               END
                                          END IF
                                          PRINT y
                                          END
```

Codificação de Programas em Linguagem C

```
/* ALG01 */
                                 /* ALG06 */
                                                               /* ALG10 */
                                /* ALG06 */
#include <stdio.h> #include <stdio.h>
int X;
#include <stdio.h>
int main()
{
                                int X;
int main()

                                  int X;
int main()

{
    scanf("%i", &X);
    if (X > 100)
        printf("%i\n", X);
    return 0;
    scanf("%
    int N2;
    int main()
        scanf("%
        scanf("%)
printf("Bom dia\n");
 return 0;
                                   return 0;
                                                                scanf("%i", &X);
/* ALG02 */
                                 }
                                                                 scanf("%i", &Y);
#include <stdio.h>
                                                                  if (X > Y)
int X;
int x;
int main()
                             /* ALG07 */
#include <stdio.h>
                                                                  N1 = Y;

N2 = X;
{
    scanf("%i", &X);
    printf("%i\n", X);
    return 0;
    int Z;
}
                                                                  }
                                                               else
                                                                  N1 = X;
N2 = Y;
                                 int main()
                                scanf("%i", &X); }
scanf("%i", &Y); printf("%i\n", N1);
if (X > 100) printf("%i\n", N2);
                                                                 }
/* ALG03 */
#include <stdio.h>
#include <math.h>
                                   {
                                                                 return 0;
                                     Z = X + Y;
int X;
                                       printf("%i\n", Z);
int Y;
                                    }
int main()
                                                              /* ALG11 */
                                   return 0;
 scanf("%i", &X);
                                                               #include <stdio.h>
 Y = pow(X, 2);
                                                               int X;
printf("%i\n", Y);
                                                               int I;
                                 /* ALG08 */
#include <stdio.h>
                                                               int main()
 return 0;
                                                            \begin{cases} X = 0; \end{cases}
                                 int X;
int Y;
                                                                 I = 1;
                                int Y;
                                int main()
/* ALG04 */
                               wille (I <= 10)
{
    scanf("%i", &X);
    scanf("%i", &Y);
    if (X <= Y)
        printf("%i\n", X);
    else
        printf("%i\n", Y);
    return 0;
}</pre>
                                                                 while (I \le 10)
#include <stdio.h>
int X;
int Y;
int Z;
int main()
 scanf("%i", &X);
 scanf("%i", &Y);
 Z = X + Y;
                                }
                                                              /* ALG12 */
#include <stdio.h>
printf("%i\n", Z);
                               /* ALG09 */
#include <stdio.h>
#include <math.h>
int I;
#include <math.h>
int main()
 return 0;
                               int X;
int Y;
int main()
/* ALG05 */
#include <stdio.h>
#include <math.h>
                                                                X = 1;
int X;
int Y;
int Z;
int main()
```

Codificação em Linguagem Lua

```
-- ALG09
-- ALG01
io.write("Bom dia\n")
                                          X = io.read("*number")
                                          if (X >= 10) then
                                           Y = X ^ 2
-- ALG02
                                          else
X = io.read("*number")
                                           Y = X ^ 3
io.write(X, "\n")
                                          end
                                          io.write(Y)
-- ALG03
X = io.read("*number")
                                          -- ALG10
Y = X ^ 2
                                          X = io.read("*number")
io.write(Y, "\n")
                                         Y = io.read("*number")
                                          if (X > Y) then
                                           N1 = Y
-- ALG04
                                           N2 = X
X = io.read("*number")
                                          else
Y = io.read("*number")
                                           N1 = X
Z = X + Y
                                           N2 = Y
io.write(Z, "\n")
                                          io.write(N1, "\n")
                                          io.write(N2, "\n")
-- ALG05
X = io.read("*number")
Y = io.read("*number")
                                          -- ALG11
                                          X = 0
Z = X ^2 + Y ^2
io.write(Z, "\n")
                                          I = 1
                                          while (I \leq 10) do
                                           io.write(X, "\n")
                                           X = X + 2
-- ALG06
X = io.read("*number")
                                           I = I + 1
if (X > 100) then
                                          end
 io.write(X, "n")
end
                                          -- ALG12
                                          X = 1
-- ALG07
                                          I = 1
X = io.read("*number")
                                         while (I \leq 10) do
Y = io.read("*number")
                                           io.write(X, "\n")
                                           X = X * 2
if (X > 100) then
                                           I = I + 1
 Z = X + Y
 io.write(Z, "\n")
                                          end
end
-- ALG08
X = io.read("*number")
Y = io.read("*number")
if (X \le Y) then
 io.write(X, "\n")
else
 io.write(Y, "\n")
end
```

Codificação em Linguagem Python

```
# ALG01
                                           # ALG10
print("Bom dia")
                                          X = int(input())
                                          Y = int(input())
                                          if (X > Y):
                                            N1 = Y
# ALG02
                                            N2 = X
X = int(input())
print(X)
                                          else:
                                            N1 = X
                                            N2 = Y
# ALG03
                                          print (N1)
X = int(input())
                                          print (N2)
Y = X ** 2
print(Y)
                                           # ALG11
                                          X = 0
# ALG04
                                          I = 1
                                          while (I <= 10):
X = int(input())
Y = int(input())
                                            print(X)
Z = X + Y
                                            X = X + 2
print(Z)
                                             I = I + 1
# ALG05
                                           # ALG12
X = int(input())
                                          X = 1
Y = int(input())
                                          I = 1
Z = X ** 2 + Y ** 2
                                          while (I <= 10):
print(Z)
                                            print(X)
                                            X = X * 2
                                             I = I + 1
# ALG06
X = int(input())
if (X > 100):
 print(X)
# ALG07
X = int(input())
Y = int(input())
if (X > 100):
 Z = X + Y
 print(Z)
# ALG08
X = int(input())
Y = int(input())
if (X \le Y):
 print(X)
else:
 print(Y)
# ALG09
X = int(input())
if (X >= 10):
 Y = X ** 2
else:
 Y = X ** 3
print(Y)
```