Codificação em Linguagem Lua

```
-- ALG01
io.write("Bom dia\n")
```

```
-- ALG02
X = io.read("*number")
io.write(X, "\n")
```

```
-- ALG03
X = io.read("*number")
Y = X ^ 2
io.write(Y, "\n")
```

```
-- ALG04
X = io.read("*number")
Y = io.read("*number")
Z = X + Y
io.write(Z, "\n")
```

```
-- ALG05
X = io.read("*number")
Y = io.read("*number")
Z = X ^ 2 + Y ^ 2
io.write(Z, "\n")
```

```
-- ALG06
X = io.read("*number")
if (X > 100) then
  io.write(X, "\n")
end
```

```
-- ALG07
X = io.read("*number")
Y = io.read("*number")
if (X > 100) then
  Z = X + Y
  io.write(Z, "\n")
end
```

```
-- ALG08
X = io.read("*number")
Y = io.read("*number")
if (X <= Y) then
  io.write(X, "\n")
else
  io.write(Y, "\n")
end
```

```
-- ALG09
X = io.read("*number")
if (X >= 10) then
  Y = X ^ 2
else
  Y = X ^ 3
end
io.write(Y)
```

```
-- ALG10
X = io.read("*number")
Y = io.read("*number")
if (X > Y) then
  N1 = Y
  N2 = X
else
  N1 = X
  N2 = Y
end
io.write(N1, "\n")
io.write(N2, "\n")
```

```
-- ALG11
X = 0
I = 1
while (I <= 10) do
  io.write(X, "\n")
  X = X + 2
  I = I + 1
end
```

```
-- ALG12
X = 1
I = 1
while (I <= 10) do
  io.write(X, "\n")
  X = X * 2
  I = I + 1
end
```