UNIVERSIDADE FEDERAL DA PARAÍBA - CENTRO DE INFORMÁTICA

Componente curricular: Introdução à Programação

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Turma: 25.1 Ciência de Dados e Inteligência Artificial

Lista de Exercícios 03: Teste de Mesa

Programa 01

```
a = 2
b = 9
while (b-a > 1):
    c = 2 * b
    b = b - 1
    a = a + 2
c = (c / 2) + a
```

A	B	C	TELA
2	-	-	
2	9	-	
2	9	18	
2	8	18	
4	8	18	
4	8	16	
4	7	16	
6	7	16	
6	7	14	

Programa 02

```
b = 10 / 5
c = b + 3
while (c < 8):
    a = b * b
    b = a
    c = c + 1
a = b / a
b = b / c
```

A	B	C	TELA
-	2	-	
-	2	5	
4	2	5	
4	4	5	

4	4	6	
16	4	6	
16	16	7	
256	16	7	
256	256	7	
256	256	8	
1	256	8	
1	32	8	

Programa 03

```
a = 4
b = a * a * a
c = b / a
if (c > a):
  while(b/a > 1):
    c = c - a
    b = b / 2
else:
  c = a + c
```

A	B	C	TELA
4	-	-	
4	64	-	
4	64	16	
4	64	12	
4	32	12	
4	32	8	
4	16	8	
4	16	4	
4	8	4	
4	8	0	
4	4	0	

Programa 04

```
a = 8
b = 5
while (a+b < 20):
    c = a - b
    if (c > 4):
        d = 7 + c
    else:
        d = 2 + c
    a = a + 1
    b = b + 2
```

A	B	C	D	TELA
8	-	-	-	
8	5	-	-	
8	5	3	-	
8	5	3	5	
9	5	3	5	
9	7	3	5	
9	7	2	5	
9	7	2	4	
10	7	2	4	
10	9	2	4	
10	9	1	4	
10	9	1	3	
11	9	1	3	
11	11	1	3	

Programa 05

```
a = 10
b = 22
while (b-a > 4):
    c = b - (2*a)
    if (c > 0):
        d = c + 1
    else:
        d = c + 5
    a = a + 3
    b = b - 2
```

A	B	C	D	TELA
10	-	-	-	
10	22	-	-	
10	22	2	-	
10	22	2	3	
13	22	2	3	
13	20	2	3	
13	20	-6	3	
13	20	-6	1	
16	20	-6	1	

16	18	-6	1	

Programa 06

```
a = 2 * 2
b = 5
if (a+b < 10):
   while (b-a <= 1):
      c = (a / 2) + b
      b = b + 1
      a = a - 2
else:
   while (b-a > 1):
      c = b / 2
      b = a + 1
```

A	B	C	TELA
4	-	-	
4	5	-	
4	5	7	
4	6	7	
2	6	7	

Programa 07

```
a = 3
c = a + 2
while (a <= 6):
   b = a - 2
   print(b)
   while (b > 0):
      if (a < c):
         c = a * 2
      elif (a > 3):
         c = a + b
      else:
         c = b - 1
      print(c)
      b = b - 2
   a = a + 3
```

A	B	C	TELA
3	-	-	
3	-	5	
3	1	5	1
3	1	6	6
3	-1	6	
6	-1	6	
6	4	6	4
6	4	10	10
6	2	10	
6	2	12	12
6	0	12	
9	0	12	

Programa 08

```
a = 20
b = 8
c = a - b
while (c > 1):
    a = a - 4
    b = b + 1
    if (b > 12):
        c = c - 1
    elif (a < 6):
        c = c - 2
    else:
        c = c - 3
b = b / a
a = (c + b) / a
```

A	B	C	TELA
20	-	-	
20	8	-	
20	8	12	
16	9	12	
16	9	9	
12	9	9	
12	10	9	
12	10	6	
8	10	6	
8	11	6	
8	11	3	
4	11	3	
4	12	3	
4	12	1	
4	3	1	
1	3	1	

Programa 09

```
b = 5
c = 1
a = b + c
d = b - c
while (b > 1):
    d = b - c + 1
    while (d > 1):
        if (d >= 3 ):
            a = c + 1
        else:
            a = a + 4
        d = d - 2
    b = b - 2
c = a + b + d
```

A	B	C	D	TELA
-	5	-	-	
-	5	1	-	
6	5	1	-	
6	5	1	4	
6	5	1	5	
2	5	1	5	
2	5	1	3	

2	5	1	3	
2	5	1	1	
2	3	1	1	
2	3	1	3	
2	3	1	3	
2	3	1	1	
2	1	1	1	
2	1	4	1	

Programa 10

```
a = 4
while (a >= 0):
    b = a + 2
    c = b / 2
    if (b > 5):
        print (a + b)
    elif (b < c):
        print (c + a)
    a = a - 2
a = b + c
```

A	B	C	TELA
4	-	-	
4	6	-	
4	6	3	10
2	6	3	
2	4	3	
2	4	2	
0	4	2	
0	2	2	
0	2	1	
-2	2	1	
3	2	1	