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AnBm.lkt

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```
1  /*****
2  * Sistema:      pLekta v2 - 2013
3  *      LektaTraining: Level 1 - AnBm.lkt
4  *****/
5
6  lektaProject
7
8      projectHead
9          projectDescriptor      : "AnBm"
10         projectLanguageScope   : [ anbm ]
11         projectOperationScope  : [ test ]
12         projectInterfaceScope  : [ dialogue ]
13         projectCompileOutput   : ".AnBm.olk"
14
15     projectSetup
16         setupParserRoots = S
17
18     classModel
19         classDef:Void ( S, A, B, a, b)
20
21     lexicalModel forLanguage anbm
22         ("a",      a)
23         ("b",      b)
24
25     grammaticalModel forLanguage anbm
26         (R1: [ S -> A B ])
27         (R2: [ A -> ])
28         (R3: [ A -> a A ])
29         (R4: [ B -> ])
30         (R5: [ B -> B b ])
```

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**AnBm.slk**

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```
1  /*****
2  * Sistema:          pLekta v2 - 2013
3  *   LektaTraining: Level 1 - AnBm.slk
4  *****/
5
6  LaunchLektaKernel()
7
8  UseProject (ProjectCompile : ".AnBm.olk")
9  DisplayProcessUnderstandingOn
10
11 CreateDialogue()
```

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AnBn\_01.lkt

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```
1  /*****
2  *      Fichero:      AnBn.lkt
3  *****/
4
5  lektaProject
6
7      projectHead
8          projectDescriptor      : "AnBn"
9          projectLanguageScope   : [ es ]
10         projectOperationScope  : [ test ]
11         projectInterfaceScope  : [ dialogue ]
12         projectCompileOutput    : ".AnBn.olk"
13
14     projectSetup
15         setupParserRoots = S
16
17     classModel
18         classDef:Void ( S, A, B, a, b)
19
20     lexicalModel forLanguage es
21         setupTokenizerBlanks(" ")
22         ("a",      a)
23         ("b",      b)
24
25     grammaticalModel forLanguage es
26         (R1: [ S -> ])
27         (R2: [ S -> A S B ])
28         (R3: [ A -> a ])
29         (R4: [ B -> b ])
30
31
```

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**AnBn\_01.slk**

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```
1  LaunchLektaKernel()  
2  
3  UseProject (ProjectCompile : ".AnBn.olk")  
4  DisplayProcessUnderstandingOn  
5  
6  CreateDialogue()
```

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AnBn\_02.lkt

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```

1  /*****
2  *      Fichero:      AnBn.lkt
3  *****/
4
5  lektaProject
6
7      projectHead
8          projectDescriptor      : "AnBn"
9          projectLanguageScope   : [ es ]
10         projectOperationScope  : [ test ]
11         projectInterfaceScope  : [ dialogue ]
12         projectCompileOutput    : ".AnBn.olk"
13
14     projectSetup
15         setupParserRoots = S
16
17     classModel
18         classDef:Void ( S, AB, A, B, a, b)
19
20     lexicalModel forLanguage es
21         setupTokenizerBlanks(" ")
22         ("a",      a)
23         ("b",      b)
24
25     grammaticalModel forLanguage es
26         (R1: [ S -> &[+^] AB [+& ]])
27         (R1: [ AB -> ])
28         (R2: [ AB -> A AB B ])
29         (R3: [ A -> a ])
30         (R4: [ B -> b ])
31
32

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**AnBn\_02.slk**

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```
1 LaunchLektaKernel()  
2  
3 UseProject (ProjectCompile : ".AnBn.olk")  
4 DisplayProcessUnderstandingOn  
5  
6 CreateDialogue()
```

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AnBn\_03.lkt

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```

1  /*****
2  *      Fichero:      AnBn.lkt
3  *****/
4
5  lektaProject
6
7      projectHead
8          projectDescriptor      : "AnBn"
9          projectLanguageScope   : [ es ]
10         projectOperationScope  : [ test ]
11         projectInterfaceScope  : [ dialogue ]
12         projectCompileOutput   : ".AnBn.olk"
13
14     projectSetup
15         setupParserRoots = S
16
17     classModel
18         classDef:Void (a, b, c)
19         classDef:ElementInt (contador)
20         classDef:StructureComplex ( S, A, B : (contador))
21
22     lexicalModel forLanguage es
23         setupTokenizerBlanks(" ")
24         ("a",      a)
25         ("b",      b)
26
27     grammaticalModel forLanguage es
28         (Root: [ S -> A B ]
29             { ^ <- #1;
30               ^ <& #2; } )
31         (A_Base: [ A -> a ]
32             { ^.contador <- 1; } )
33         (A_Recursoivo: [ A -> A a ]
34             { ^.contador <- #1.contador + 1; } )
35         (B_Base: [ B -> b ]
36             { ^.contador <- 1; } )
37         (B_Recursoivo: [ B -> B b ]
38             { ^.contador <- #1.contador + 1; } )
39
40

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**AnBn\_03.slk**

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```
1  LaunchLektaKernel()  
2  
3  UseProject (ProjectCompile : ".AnBn.olk")  
4  DisplayProcessUnderstandingOn  
5  
6  CreateDialogue()
```



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AnBmCn.lkt

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```
1  /*****
2  * Sistema:      pLekta v2 - 2013
3  *      LektaTraining: Level 1 - AnBmCn.lkt
4  *****/
5
6  lektaProject
7
8      projectHead
9          projectDescriptor      : "AnBmCn"
10         projectOperationScope  : [ test ]
11         projectLanguageScope   : [ anbmcn ]
12         projectInterfaceScope  : [ dialogue ]
13         projectCompileOutput   : ".AnBmCn.olk"
14
15     projectSetup
16         setupParserRoots = S
17
18     classModel
19         classDef:Void ( S, A, B, C, a, b, c )
20
21     lexicalModel forLanguage anbmcn
22         ("a",      a)
23         ("b",      b)
24         ("c",      c)
25
26     grammaticalModel forLanguage anbmcn
27         (R1: [ S -> B? ])
28         (R2: [ S -> A S C ])
29         (R3: [ B -> B b ])
30         (R4: [ B -> b ])
31         (R5: [ A -> a ])
32         (R6: [ C -> c ])
33
```

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**AnBmCn.slk**

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```
1  /*****
2  * Sistema:          pLekta v2 - 2013
3  *   LektaTraining: Level 1 - AnBmCn.slk
4  *****/
5
6  LaunchLektaKernel()
7
8  UseProject (ProjectCompile : ".AnBmCn.olk")
9  DisplayProcessUnderstandingOn
10
11 CreateDialogue()
```

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AnBnCn.lkt

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```

1  /*****
2  * Sistema:           pLekta v2 - 2013
3  *   LektaTraining: Level 1 - AnBnCn.lkt
4  *****/
5
6  lektaProject
7
8      projectHead
9          projectDescriptor      : "AnBnCn"
10         projectLanguageScope   : [ anbncn ]
11         projectOperationScope  : [ test ]
12         projectInterfaceScope  : [ dialogue ]
13         projectCompileOutput   : ".AnBnCn.olk"
14
15     projectSetup
16         setupParserRoots = S
17
18     classModel
19         classDef:Void (a,b,c)
20         classDef:ElementInt (totalA, totalB, totalC)
21         classDef:StructureComplex (S, A, B, C: (totalA,totalB,totalC))
22
23     lexicalModel forLanguage anbncn
24         setupTokenizerBlanks(" ")
25         ("a",      a)
26         ("b",      b)
27         ("c",      c)
28
29     grammaticalModel forLanguage anbncn
30         (R1: [ S -> &[+^] A B C [+&] & ]
31             {
32                 ^ <& #1;
33                 ^ <& #2;
34                 ^ <& #3;
35
36                 if(^.totalA != ^.totalB)
37                     Fail();
38                 if(^.totalB != ^.totalC)
39                     Fail();
40             }
41         )
42
43         (R2: [ A -> a ]
44             { ^.totalA <- 1; })
45
46         (R3: [ A -> A a ]
47             { ^.totalA <- #1.totalA + 1; })
48
49         (R4: [ B -> b ]
50             { ^.totalB <- 1; })
51
52         (R5: [ B -> B b ]
53             { ^.totalB <- #1.totalB + 1; })
54
55         (R6: [ C -> c ]
56             { ^.totalC <- 1; })
57
58         (R7: [ C -> C c ]
59             { ^.totalC <- #1.totalC + 1; })
60
61
62
63

```

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**AnBnCn.slk**

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```
1  /*****
2  * Sistema:          pLekta v2 - 2013
3  *   LektaTraining: Level 1 - ANBNCN.slk
4  *****/
5
6  LaunchLektaKernel()
7
8  UseProject (ProjectCompile : ".AnBnCn.olk")
9
10 DisplayProcessUnderstandingOn
11
12 CreateDialogue()
```