```
sfa_doc_ntuple_contains_example  THM

⊢  ∃ i in <1,(-1),0>: ℤ^3. i<0
| by Compute
|      ⌈∃ i in <1,(-1),0>: ℤ^3. i<0⌉
|      *⇒
|      3 = 1 ∈ ℕ & <1,(-1),0><0
|      ∨ 3≥2
|        & 1<0
|          ∨ 3-1 = 1 ∈ ℕ & <-1,0><0
|          ∨ 3-1≥2 & -1<0 ∨ (∃ i in 0: ℤ^(3-1-1). i<0)
|
⊢  3 = 1 ∈ ℕ & <1,(-1),0><0
|  ∨ 3≥2
|    & 1<0
|      ∨ 3-1 = 1 ∈ ℕ & <-1,0><0
|      ∨ 3-1≥2 & -1<0 ∨ (∃ i in 0: ℤ^(3-1-1). i<0)
| by AndToCandLocal Select: 2
|
⊢  1<0
|  ∨ 3-1 = 1 ∈ ℕ & <-1,0><0
|  ∨ 3-1≥2 & -1<0 ∨ (∃ i in 0: ℤ^(3-1-1). i<0)
| by AndToCandLocal Select: 3
|
⊢  0 ∈ (ℤ^(3-1-1))  by Compute ⌈ℤ^(3-1-1)⌉ *⇒ ℤ
END
```