

## Primera prctica - edificios

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## codigo

Este mdulo se representa un edificio de viviendas.

Un edificio est representado por una lista, que a su vez contiene sublistas que representarn las distintas plantas del edificio. Los elementos de cada sublista sern las viviendas y su valor el nmero de habitantes para dicha vivienda.

El nmero de habitantes estar representado por nmeros en notacin de Peano:

```
nat(0).
nat(s(N)) :-
    nat(N).
```

## Generacin de la documentacin

Esta documentacin ha sido generada automticamente con la herramienta **lpdoc** (<http://ciao-lang.org/ciao/build/doc/lpdoc.html/>). Para generarla, desde una lnea de comandos ubicada en el directorio donde se encuentra el fichero de cdigo, se ha ejecutado: `~$ lpdoc -t memoria.pdf`

## Usage and interface

- **Library usage:**

```
:- use_module(/home/jaime/edificios/codigo.pl).
```

- **Exports:**

– *Predicates:*

```
alumno_prode/4, basic_building/1, building/1, nat/1, nat_eq/2, list_
members/2, is_list_members_nat/1, is_list_list_members_nat/1, has_level_
one_home/1, list_has_one/1, count_homes_level/2, nat_add/3, nat_geq/2, all_
levels_equal/1, first_level_homes/2, level/3, level_aux/3, column/3, column_
aux/3, columns/2, columns_aux/3, building_columns/2, total_people/2, total_
people_homes/3, lists_to_list/2, average/2, round/3, nat_even/1, nat_
odd/1, nat_division/3, nat_gt/2, nat_mod/3, nat_prod/3, list_same_length/2,
sublevel_column/3, list_append/3, list_length/2, list_reverse/2, list_
reverse/3.
```

## Documentation on exports

### **alumno\_prode/4:**

No further documentation available for this predicate.

PREDICATE

### **basic\_building/1:**

No further documentation available for this predicate.

PREDICATE

### **building/1:**

No further documentation available for this predicate.

PREDICATE

<b>nat/1:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_eq/2:</b> No further documentation available for this predicate.	PREDICATE
<b>list/1:</b> No further documentation available for this predicate.	PREDICATE
<b>list_members/2:</b> No further documentation available for this predicate.	PREDICATE
<b>is_list_members_nat/1:</b> No further documentation available for this predicate.	PREDICATE
<b>is_list_list_members_nat/1:</b> No further documentation available for this predicate.	PREDICATE
<b>has_level_one_home/1:</b> No further documentation available for this predicate.	PREDICATE
<b>list_has_one/1:</b> No further documentation available for this predicate.	PREDICATE
<b>count_homes_level/2:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_add/3:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_geq/2:</b> No further documentation available for this predicate.	PREDICATE
<b>all_levels_equal/1:</b> No further documentation available for this predicate.	PREDICATE

**first\_level\_homes/2:**

PREDICATE

No further documentation available for this predicate.

**level/3:**

PREDICATE

No further documentation available for this predicate.

**level\_aux/3:**

PREDICATE

No further documentation available for this predicate.

**column/3:**

PREDICATE

No further documentation available for this predicate.

**column\_aux/3:**

PREDICATE

No further documentation available for this predicate.

**columns/2:**

PREDICATE

No further documentation available for this predicate.

**columns\_aux/3:**

PREDICATE

No further documentation available for this predicate.

**building\_columns/2:**

PREDICATE

No further documentation available for this predicate.

**total\_people/2:**

PREDICATE

No further documentation available for this predicate.

**total\_people\_homes/3:**

PREDICATE

No further documentation available for this predicate.

**lists\_to\_list/2:**

PREDICATE

No further documentation available for this predicate.

**average/2:**

PREDICATE

No further documentation available for this predicate.

<b>round/3:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_even/1:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_odd/1:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_division/3:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_gt/2:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_mod/3:</b> No further documentation available for this predicate.	PREDICATE
<b>nat_prod/3:</b> No further documentation available for this predicate.	PREDICATE
<b>list_same_length/2:</b> No further documentation available for this predicate.	PREDICATE
<b>sublevel_column/3:</b> No further documentation available for this predicate.	PREDICATE
<b>list_append/3:</b> No further documentation available for this predicate.	PREDICATE
<b>list_length/2:</b> No further documentation available for this predicate.	PREDICATE
<b>list_reverse/2:</b> No further documentation available for this predicate.	PREDICATE
<b>list_reverse/3:</b> No further documentation available for this predicate.	PREDICATE

## Documentation on imports

This module has the following direct dependencies:

– *Internal (engine) modules:*

`term_basic`, `arithmetic`, `atomic_basic`, `basiccontrol`, `exceptions`, `term_compare`,  
`term_typing`, `debugger_support`, `basic_props`.

– *Packages:*

`prelude`, `initial`, `condcomp`, `assertions`, `assertions/assertions_basic`.





## References

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