

# **Primera práctica - edificios**

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## codigo

Este módulo se representa un edificio de viviendas.

Un edificio es representado por una lista, que a su vez contiene sublistas que representan las distintas plantas del edificio. Los elementos de cada sublista serán las viviendas y su valor el número de habitantes para dicha vivienda.

El número de habitantes estar representado por números en notación de Peano:

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

## Generación de la documentación

Esta documentación ha sido generada automáticamente con la herramienta **lpdoc** (<http://ciao-lang.org/ciao/build/doc/lpdoc.html/>). Para generarla, desde una línea de comandos ubicada en el directorio donde se encuentra el fichero de código, 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:**

PREDICATE

No further documentation available for this predicate.

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

PREDICATE

No further documentation available for this predicate.

### **building/1:**

PREDICATE

No further documentation available for this predicate.

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

<b>first_level_homes/2:</b>	PREDICATE
No further documentation available for this predicate.	
<b>level/3:</b>	PREDICATE
No further documentation available for this predicate.	
<b>level_aux/3:</b>	PREDICATE
No further documentation available for this predicate.	
<b>column/3:</b>	PREDICATE
No further documentation available for this predicate.	
<b>column_aux/3:</b>	PREDICATE
No further documentation available for this predicate.	
<b>columns/2:</b>	PREDICATE
No further documentation available for this predicate.	
<b>columns_aux/3:</b>	PREDICATE
No further documentation available for this predicate.	
<b>building_columns/2:</b>	PREDICATE
No further documentation available for this predicate.	
<b>total_people/2:</b>	PREDICATE
No further documentation available for this predicate.	
<b>total_people_homes/3:</b>	PREDICATE
No further documentation available for this predicate.	
<b>lists_to_list/2:</b>	PREDICATE
No further documentation available for this predicate.	
<b>average/2:</b>	PREDICATE
No further documentation available for this predicate.	

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