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Actividad 5.1 Programación Lógica

7. Write a predicate fact/2 which takes a natural number as first argument, and returns the factorial of the number.

fact(0, 1).

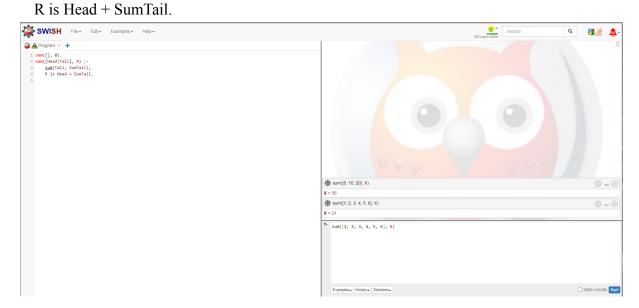
fact(X, R) := X > 0, X1 is X-1, fact(X1, R2), R is R2*X.



16. Define sum/2 to take a list of integers as input and return the output as their sum.

sum([], 0).

sum([Head|Tail], R) :sum(Tail, SumTail),



19. Write a predicate split/4 that splits a list into two parts, the length of the first part is given.

split(L,0,[],L).

split([Head|TailX],N,[Head|TailY],List2) :- N > 0, N1 is N - 1, <math>split(TailX,N1,TailY,List2).

