

HAPPY-)

```
(fun (main)
  (write (fact (read)))
)

(fun (fact x) (
  (if (= x 0)
    (return 1)
    (return (* x (fact (- x 1)))))
)
))
```

La syntaxe du HAPPY-)

```
// Construit une liste d'entiers
main()
{
  last := null;
  read (x);
  while (x != -1)
  {
    node := new/2;
    node.1 = last;
    node.2 := x;
    last = node;
    read (x);
  }
  y := sum (last);
  write (y);
}

// Calcule la somme des entiers d'une liste
sum (list)
{
  s := 0;
  current := list;
  while (current != null)
  {
    s := s + current.1;
    current := current.2;
  }
  return (s);
}
```