

Programación 1 - Semestre 1

Solución segundo parcial

1.a)

```
function prefijo(t1,t2: Texto): Boolean;
var i: Integer;
begin
  i := 1;
  if t1.tope <= t2.tope then
    while (i <= t1.tope) and (t1.letras[i] = t2.letras[i]) do
      i := i+1;
    prefijo := i > t1.tope
end;
```

1.b)

```
function prediccion(t: Texto; dic: Diccionario): Integer;
var i: Integer;
begin
  i := 1;
  while (i <= TOTAL_PALABRAS) and not prefijo(t,dic[i]) do
    i := i+1;
  if i <= TOTAL_PALABRAS then
    prediccion := i
  else
    prediccion := 0
end;
```

1.c)

```
function distancia(t1,t2: Texto): Integer;
var i, dist, topeMenor: Integer;
begin
  dist := abs(t1.tope-t2.tope);
  if t1.tope <= t2.tope then
    topeMenor := t1.tope
  else
    topeMenor := t2.tope;
  for i := 1 to topeMenor do
    if t1.letras[i] <> t2.letras[i] then
      dist := dist + 1;
  distancia := dist
end;
```

2)

```
procedure duplicarN(n: Integer; var l : ListaEnt);
var q,s : ListaEnt;
begin
  q := l;
  (* busco el elemento en la lista*)
  while (q <> nil) and (q^.elem <> n) do
    q := q^.sig;
  (* si lo encuentre inserto la copia*)
  if (q <> nil) then
    begin
      s := q^.sig;
      new(q^.sig);
      q^.sig^.elem := n;
      q^.sig^.sig := s;
    end;
end;
```

3)

```
function sumaValores(v1,v2: Valor): Integer;
var num1, num2 : Integer;
begin
  if v1.tipo = car then
    num1 := ord(v1.valorC)-ord('0')
  else
    num1 := v1.valorN;
  if v2.tipo = car then
    num2 := ord(v2.valorC)-ord('0')
  else
    num2 := v2.valorN;
  sumaValores := num1 + num2
end;
```