

```

{ i <= N, s1 = suma v[1..i], s2 = suma v[i+1..N] }
func i-particio ( v:vactor[1..N] d'int; i:int; s1,s2:int) ret b:bool;
  Si i=0 llavors b:= fals;

```

```

fSi
{ b= "existeix m ∈ {1..i} tal que suma v[1..m] = suma v[m+1..N]" }

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func i-particio ( v:vactor[1..N] d'int; i:int; s1,s2:int) ret b:bool;
  Si i=0 llavors b:= fals;
  sino Si s1=s2 llavors b:= cert;

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func i-particio ( v:vactor[1..N] d'int; i:int; s1,s2:int) ret b:bool;
  Si i=0 llavors b:= fals;
  sino Si s1=s2 llavors b:= cert;
    sino b:= i-particio ( v, i-1, s1-v[i], s2+v[i] );
  fSi
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{ b= "existeix m ∈ {1..i} tal que suma v[1..m] = suma v[m+1..N]" }

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func i-particio ( v:vactor[1..N] d'int; i:int) ret b:bool; s1,s2:int;
  Si i=0 llavors b:= fals;
  sino <b,s1,s2>:= i-particio ( v, i-1);
  {HI: b= "existeix m ∈ {1..i-1} tal que suma v[1..m] = suma v[m+1..N]
  s1= suma v[1..i-1], s2=suma v[i..N] }
  s1:= s1+v[i]; {s1= suma v[1..i]}
  s2:= s2-v[i]; {s2= suma v[i+1..N]}
  b:= b or (s1=s2);
fSi
{ b= "existeix m ∈ {1..i} tal que suma v[1..m] = suma v[m+1..N]
s1= suma v[1..i], s2=suma v[i+1..N]" }

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{ i <= N, }
func i-particio ( v:vactor[1..N] d'int; i:int) ret b:bool; s1,s2:int;
  Si i=0 llavors b:= fals; s1:=0; s2:= ??? tota la suma!!!!
  sino <b,s1,s2>:= i-particio ( v, i-1);
  {HI: b= "existeix m ∈ {1..i-1} tal que suma v[1..m] = suma v[m+1..N]
  s1= suma v[1..i-1], s2=suma v[i..N] }
  s1:= s1+v[i]; {s1= suma v[1..i]}
  s2:= s2-v[i]; {s1= suma v[i+1..N]}
  b:= b or (s1=s2);
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{ b= "existeix m ∈ {1..i} tal que suma v[1..m] = suma v[m+1..N]
s1= suma v[1..i], s2=suma v[i+1..N]" }

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```

{ i <= N, s2 = suma v[i+1..N] }
func i-particio ( v:vector[1..N] d'int; i:int; s2:int) ret b:bool; s1:int;
  Si i=0 llavors b:= fals; s1:=0;
  sino <b,s1>:= i-particio ( v, i-1,s2+v[i]);
  {HI: b= "existeix m ∈ {1..i-1} tal que suma v[1..m] = suma v[m+1..N]
  s1 = suma v[1..i-1] }
    s1:= s1+v[i]; {s1 = suma v[1..i]}
    b:= b or (s1=s2);
  fSi
  { b= "existeix m ∈ {1..i} tal que suma v[1..m] = suma v[m+1..N]
  s1 = suma v[1..i]" }

```

Crida inicial:

```
<b,s>:= i-particio(v,N,0);
```