1.

proc divide (in v: vector<$\mathbb{Z}$>, in n: $\mathbb{Z}$, out res: Bool) {
    Pre {$n \neq 0$}
    Post {$res = \text{true} \leftrightarrow (\forall i : \mathbb{Z})((i \in v) \rightarrow (\text{i mod n} = 0))$}
}

2.

proc maximo (in v: vector<$\mathbb{Z}$>, out res: $\mathbb{Z}$) {
    Pre {$|v| > 0$}
    Post {$res = i \leftrightarrow (\forall j : \mathbb{Z})((i, j \in v) \rightarrow (\text{i >j}))$}
}

3.

proc pertenece (in elem: $\mathbb{Z}$, in v: vector<$\mathbb{Z}$>, out res: Bool) {
    Pre {true}
    Post {$res = \text{true} \leftrightarrow (\exists i : \mathbb{Z})((0<i<|v|) \wedge_L (\text{v[i]} = \text{elem}))$}
}