Minimum and maximum values of vector

Find the minimal and maximal value of the vector [1 3 -5 6 -4 8] using the script.

We will define two functions, fnMin() which finds the minimal element of the vector, and fnMax() for maximal element of vector.

```
fnMin(v)
{
  n := inf
  if( "vector" != type(v) )
  {
    return(void)
  }
  for( i := 0 , i < size(v) , i += 1 )
  {
    if( v[i] < n )
    {
      n = v[i]
    }
  }
  return(n)
}
```

```
fnMax(v)
{
  n := -inf
  if( "vector" != type(v) )
  {
    return(void)
  }
  for( i := 0 , i < size(v) , i += 1 )
  {
    if( v[i] > n )
    {
      n = v[i]
    }
  }
  return(n)
}
```

Data vector

$$a := \begin{bmatrix} 1 & 3 & -5 & 6 & -4 & 8 \end{bmatrix}$$

Call of function and minimal element of vector

$b := fnMin(a)$

$b = -5$

Call of function and maximal element of vector

$c := fnMax(a)$

$c = 8$

We shown in this example the way you can define and use custom functions.