Laboratory 5

2.

a) Write a function to return the product of two vectors.

https://en.wikipedia.org/wiki/Dot_product

- b) Write a function to return the depth of a list. Example: the depth of a linear list is 1.
- c) Write a function to sort a linear list without keeping the double values.
- d) Write a function to return the intersection of two sets.

a.

b.

$$my Max (a, b) = \frac{1}{2} a, \quad \text{if } a > b$$
 $f = \frac{1}{2} c$

my Main (l, l, l, lm) = my Find Depth (l, l, l, l, 1)

my Combains $(e, l_1 l_2 ... l_n) = \begin{cases} mil, & \text{if } m = 0 \\ there, & \text{if } l_1 = e \\ my Cantains (e, l_2 ... l_n), & \text{otherwise} \end{cases}$