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.

Max $(a, b) = \frac{1}{2}a$, if a > bMax $(a, b) = \frac{1}{2}b$, otherwise

my Main (1, l2...lm) = my Find Depth (l, l2...lm, 1)

my Sort $(l_1 l_2 ... l_m) = \begin{cases} mil, & if m = 0 \\ my & my & fort (l_2 ... l_m), l_1), & otherwise \end{cases}$