

Problem 3 (20 points). Write a function **listgen** that takes an integer v as input and generates a function as output; the generated function takes an integer n as input and produces a list that consists of n occurrences of v . For example:
`assert(listgen(5)(3) == List(5, 5, 5))`

Problem 4 (20 points) Explain what Algebraic Data Type (ADT) is.

Name: _____

Student number: _____