

UNIVERSITY OF JOHANNESBURG

FACULTY OF SCIENCE

COMPUTER SCIENCE 1A

SAMPLE DESIGN

Problem Description

Write a C++ program so that in Option B your program will allow users to specify a sequence by asking them for a starting value, a stopping value and step value and the program will output the resulting sequence.

Input & Output

Input		
Input Description	Mechanism	
Starting Value	Standard input steam	
Stop Value	Standard input steam	
Step Value	Standard input steam	
Output		
Output Description	Stream (optional)	
The sequeene	Standard output stream	

Data Format

Identifier	Data Type	Description
intLastValue	Integer	Last Value of the sequence
intMakeSequence	•	Function used to output sequence and output last value

Pseudo Code

IntLastValue = intMakeSequence Output intLastValue

intMaeSequence:

intStart ← User input

intStop ← User input

intStep ← User input

while (intStart is less than intStop)
Output intStart
Add intStep to intStart

Return intStop

