## **Programming: Structures**

А	Key Vocab
Iteration	Repeated execution of a group of instructions
Condition	An iteration statement which repeats until a
controlled lo	certain requirement is met
Count	An iteration statement which repeats for a
controlled lo	specified number of times
Search	Find a specific item in a list of data using an
	algorithm
Selection	A choice of which branch to take in a
	program, often with IF statements
Sort	Arranging a list into an order
Statement	An instruction or clause in a program
Recursive	An algorithm which calls itself
В	Iteration structures

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В	Iteration structures
DO UNTIL	Iteration structure which has a stop condition at
	the end of the loop
DO WHILE	Iteration structure which has a continuation
	condition at the end of the loop
FOR NEXT	Iteration structure which has an index variable, a
	step value and a stop condition
WHILE	Iteration structure which has a start condition at
	the beginning of the loop

С	Selection structures
IF (ELIF)	A selection statement which branches the
ELSE	program under certain conditions
SWITCH	A type of selection statement where there are a
CASE	number of possible branches

D	Search
Linear	A search algorithm which starts by looking at the
search	first item in an unordered list, then moves to the
	second etc.
Binary	A search algorithm which starts by looking at the
search	middle term in an ordered list, then if the item is
	not found, recursively searching on the half of
	the list with the item in it

l	Е	Sort
	Bubble	A sorting algorithm which swaps adjacent items
l	sort	in a list if they are not in the right order, before
		moving onto the next pair.
	Insertion	A sorting algorithm which goes through a list by
1	sort	item, removes the item and puts it into the
1		appropriate place in a new ordered list
	Merge	A sorting algorithm which splits a list in two,
1	sort	sorts each list recursively, then merges them
l		back together
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