
Black Box Testing

Validation and Verification of Software

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Input Condition	Valid Equivalence Class	Invalid Equivalence Class
I. Number of args <2 or >3		1) Number of arguments less than 1 2) Number of arguments greater than 3
II. Number of args = 2	3) 1st argument is either integer or real and 2nd argument is either integer or real and both numbers are less or equal than MAX_INTEGER. 4) 1st argument is either integer or real and 2nd argument is either integer or real and 2st argument is greater than the 1st argument and both numbers are less or equal than MAX_INTEGER.	5) 1st argument is neither integer nor real 6) 1st argument is integer or real and 2nd argument is neither integer nor real 7) At least one argument is greater than MAX_INTEGER
III. Number of args = 3	8) 1st argument is either integer or real and 2nd argument is either integer or real and 3th argument is either integer or real, different of zero and all arguments are less or equal than MAX_INTEGER. 9) 1st argument is either integer or real and 2nd argument is either integer or real and 3th argument is either integer or real, different of zero and the number argument are less or equal than MAX_INTEGER and 2nd argument greater than the first argument.	10) 1st argument is not integer not real 11) 1st argument is real or integer, 2nd argument is neither integer nor real . 12) 1st argument is real or integer, 2nd argument is real or integer, 3th argument is neither integer nor real . 13) 1st argument is either real or integer, 2nd argument is either real or integer, 3th argument is real or integer integer and its value is equal to zero. 14) At least one argument is greater than MAX_INTEGER

Eq. Class type	Valid Eq. classes				Invalid Eq. classes									
Input Condition	II		III		I		II			III				
Eq. Class	3	4	8	9	1	2	5	6	7	10	11	12	13	14
TC1	-	-	-	-	X	-	-	-	-	-	-	-	-	-
TC2	-	-	-	-	-	X	-	-	-	-	-	-	-	-
TC3	X	-	-	-	-	-	-	-	-	-	-	-	-	-
TC4	-	X	-	-	-	-	-	-	-	-	-	-	-	-
TC5	-	-	X	-	-	-	-	-	-	-	-	-	-	-
TC6	-	-	-	X	-	-	-	-	-	-	-	-	-	-
TC7	-	-	-	-	-	-	X	-	-	-	-	-	-	-
TC8	-	-	-	-	-	-	-	X	-	-	-	-	-	-
TC9	-	-	-	-	-	-	-	-	X	-	-	-	-	-
TC10	-	-	-	-	-	-	-	-	-	X	-	-	-	-

[illegible]

