SEMINAR 2 - Testare Black-Box ECP BV4 16.03.2020 A tehnice de testare Black-Book / Somoin Testing EC = multime de valori pentin care programul are comportament similar Eg: frumlar de juscière: 3i luna, anul masterin 1-331 1-3121 1990 72020 mon-valid valid wr. de ECs testate Ac. ECP = 3 × 100 = 100% TU & 1=3 TC4: 2-3 mr. de ECs identificate TC3: (=14 - existe reguli de identificare a ECs 1°) domenial de valori [1,12]=) +++ 2°) domeniul de valori 31,-12 / => 2ECs Mon-(1), 12 June 127. 1EC pentru fierane valoane validé => 12 ECs valide
. 1EC - non valido l \$ 11-129

3º) domeniul de valori 3 Dl, Dua y => 104, 10mg. 1EC pentru fierare valoure valida => 2ECs valide ·1FC - non-valida / v € 1 Dl, Duas multime finita si neordonata - ECP - adecrata justra co reduce mult wr. de TCs un este eficienta la limita dintre ECs => BVA - telmico adecivata pt. analiza l'inifelort Cs; limità a unei EC = «lœul" in care programul it schima comportamental -BVA -analiteatà limita si valori aflate in pirul el scoldifii BIA ACBVA = 6 x 100=1006 conditi BUA neguli de aplicare a BVA identificate 10) EC interval => 2 linuite => 6 TCs (4 valide +2 non-valide) 20) EC multipue fruits, ordinata 0 21, -12 413 marial 1

=> 2 limite => 4TCs limita inf limitating (2 valide + 2 non-valide) 3°) EC multime fruits, neordonate 28, Duay => me are limite => 0 TCs => alle Alluia tremie aplicate, e.g. best Representative

SEMINAR2 - WSS 2019-2020 I Vorificati daco un munior ne este prime · X= date de intrare, cumorante Dotte: X=(n) Y(x): ueN · 2 2 date de jesère, calculate /deferminate variable de repre · Y= resultate interenediare; X, Y, 2=vectori de variabile Retulate: 2=(n) Y(X,t): [(1=0), Fi, i=2, Vu, n/0i +0)] V - prim (r=1), (fi, ie 32, ... Vm), u/oi=0) - negrin 0, 1-> all but nor pline 2,5 - wr. prime -wr. prim = wr. come au ca divitor pe 1 si pe el inturi -condition i su l'artitionare in clase de eclivalenta si proventarea Testelor 1. Precorditie, protenditie; date, resultate 2. Identificares condition pentre · datele de intraré · datele diverire 3. Identificares ECs asscrate condifiler de la 2. · non-valide · hunnerofare unice a ECs 4. Cathing (FEC pentru con FTCs) executa dace (EC este validac weaespents) atunci serie un TC non pentra cost mon mulhe E Civalide altel serie coste un TC non pentra fiecare ECnon-valida

nou

valid

1,2- pe pagina 1 3. Identificarea ECS

E.TAI	O Dila	1 EC . 00 = 1	0.0-
wrtc	Conditie	EC valida	ECur valida
1	NEW	nen	A. do
2			MEIN
3	20013	r=o (refot)	
4	1001017	r=As(refet)	
5	E. H. R.		r \$1019 - erschestage
1	200		

4. TCs pt ECs

				1
werc	ECin	ECout	Date de intrare	Resultate asteplate
TCOI	1	3	11	0 = prim
TC02	1	4	9	1-hieprin
TC03	2	5	-1, "abc", #10	merajde Proase
		N.		

tapenine ECs= = 100% carni de analizat: ref9 of ret time, false y, ret prim, neprim y

Analita valorilor limita (Boundary Value Analysis)

1: 1,2,3 dela ECP

2. Identificance conditiler BVA

a) MEN ME [0, too) ME [0, Maxhut] Maxhut

- multime ordonata finita

- are 2 limite

validarie - o

. Mars = 1

=> conditio BUA 1/11=0 => TC04

hid = Marchet = >TCOB

M = Marchet = >TCOB

6) M= Machet => TCO7 6) M= Machet +1 => TCO8

F) 12=0 => TCOI

8) 1=1 =) TCO2

9) N=2 => TCO9 (m +e posts simulating lementa)

10) 2=1=) Telo (tu se prate

-alte representani

oreftine, false y san ref pring reprient

- multime finita neoldonata

- man limite => BVA muse poste aplico; se aplice alle tehnicie.)

NrIC	Conditie BVA	Date de intrare	Sate de ierie
TCOY	N=0	0	1=ngrin
TC05	M=+1	Commenced to and the Commenced to the Co	1=mgrin
TC06	h=Maxhd-1	Maxolat-1	0/1
TC07	Maxind	Maxint	0/1
TCOS	11=Maxlutt	Market	error mag
Teog	R=2	2 Company to the second	un se poate
TONO	1=-1	?	rue te prate

2. Semuatura metoda Quiz get Max Counter (List < int > l) : but

1) X=(li, i=1,n,u); f(x):(li = [0,30], u ∈ [0,100]) Z=(r); Y(x,2): (r=[0,100], n=[0,100], r sn)

2) Conditi feutra · date de intrare: lie Eo, 30], M = Eo, 100], i=1, h

3) Identificares ECs:

Wrest	Conditie	ECvalida	EC won-valida
1	li €[0,30]	lie[0,30]	_
2	1 = 1/4	_	li <0
3		-	li >30
4	me[0,1007	M € [0,100]	-
5		_	MCO
6		-	M7100
7	re[0,100]	Ne {0,100]	
10	1 -11:2	-	27100

1	Inte	FCin	ECord	Input Mylei	Output	
-	TCOI	44	4,10	3, [1,2,8]	1.	TCOI=TCO2
1	TCo2	4	10	[2,0	0	
-	Tco3	1,4	7,10	1, 20]	0	hornous in the applications of shape in plant to conductation of smaller
1	Took	2,4	-	1,5-1]	orror ausq	lactorisals:
	T005	3,4	-	2, [3931]	essor ruly	person a realizate and the series of the ser
	Tco6	(5)	_	-1,-	error mig	y it agodan coloh yil by the messiva spirately franch docum i'n mor spirately could
	TCOT	6	-	101, [1,0,-1]	error misg	
	TCOS		4)	2) mu se	
	Tcog		9	?	I fireula	
	TC10			3	Timplement	

1,2,3- pagina 3 4) Conditii BVA

·lie[0,30], i=1, u

· ne[0,100]

li=1->TCO4

2) li=0 -> TCO1, TCO7
3) li=+1 -> TCO1, TCO7
4) li=29 -> TC11
5) li=30 -> TC12

M=-1 ->7006

11=0 ->TCOZ

M=+1-> TCO3

4=99 -> TCH

4=100 -> TCIL

4=101 -> TCO+

r=-1 -> mu se poate simula TC13

(4) 1=0 -> TCOZ, tco3

R=1 -> Tcoi

7=99->TC1

r=101 -> mi se prate simule TC/4

NrTC	Conditie BUA	Input My Ci	2 Culput	
TCH	li=29	99, [29,29]	99	
TC12	li=30	100, [30, -30]	100	to me to
TC 13	2=-1	?	-1	mu se prati
TC14	九=101	?	101	

