White board 12

Create an Amimal Shelter class that uses a first in/first outapproach using enque (addin Java) and deque (remove in Trus) meshod 5. Also for "pret" return longest waiting preformat animal (cat ordog) Stretch if no preffered contained tippe return 1009=57 waiting animal

Visual Minal Shelter Covere Class D Scenario - Generalfirst old. Cenario - din/firstout

in/firstout

FIFOimp

ald. Cold[d]C Que oe. pill toget minul

Iristin First Out implementation

Scenario dos orly a cost of first mont queve if queve. poll = null

if queve. poll = null

ino anials " propo

concerned while (queve. poll = pref) &

in a proportion of the pref) &

in a proportion of the pref

concerned to the Keep pulloff tail? Porting in head Sounder --;

Men, when c found en gove to Stack A gand push to Queur 3) Scenario 3 - dog deswed Same as Scenario 2 only of dedog get L not c= cat (4) Scenario Hongest waiting animal vaiting animal claus

Algorichm

1º for lests build custum, to String medied for Over

2: instead of using stacks
for Scenario 233

USENTINE 1000 1

USENTINE 1000 5

3. if \$2 doest work, instaintial Zemphy Stacks to help w/ Scenarios 2\$3

4: Actually write simple Scenario 1 stest 5. Write Scenario 2 3 test ? a Scenario 3 3 test 7. « Scerario4

Pszudo Code - Degoerran to String method Oue ve. to Array toString Scenavio One-Get FIFO)
continual possirc class Quere () } onival a poll First 3 return animal 33 (Scenario Tub Get prof Degre extends Queil while loop while

and while not pref & contint b) guve.poll return pretail! Stoppreserve FIFO order Scenario 3-get 13 Repeu de code a

(Scenario form FILO) FILO = POSTILLANT GUEVE. POST

Lode

public

class Quevecstring>

animal Shelter &

private int Sig = Over Sign!

public String to String () & return Queve to Array to String;

3

public String get Animal() & if (copre: poll := mull) § reform no animals available"; Int countr= size-1; unile(comber != sige-1)? String animal = Queve. poll; string shelter = queve.add 3 returnami mal;

public String getfret (String pef) if (opveve . pol == nul) { return " NO "+ Pret + a ovailable."; While (queve.poll!=pref pref = que.poll; queve. affer (pref); 3 return pref;

public String get longest Stry if Capreve. pool = = noll) } return 'no animals available "; return queve.poll;

for e. method - emptyshetter - get låt - get Dog - get cat à nocats - getdoz z ndogs - get newestæminal - get longist Stay arrival