Vazifa: Dart tilida isolates yordamida "Akvarium" konsol ilovasini yaratish

Vazifa ta'rifi:

Dart tilida baliq akvariumini modellashtiradigan konsol ilovasini ishlab chiqish kerak. Ilovada har bir baliq alohida isolate sifatida taqdim etilishi kerak va baliqlar ko'payishi va o'lishi mumkin bo'lishi kerak, shunda populyatsiya muvozanati saqlanadi.

Asosiy talablar:

- 1. **Baliqlar alohida isolates sifatida**: Har bir baliq alohida isolate sifatida taqdim etilishi kerak
- 2. **Baliqlar ko'payishi**: Baliqlar berilgan o'zgaruvchisi listPopulationTime vaqtlarida ko'payishadi, ko'payish vaqti kelganda akvariumdagi baliqlar ro'yhatidan random boshqa jinsdagi baliq tanlab olinadi va bu ikki baliqni id lari olinadi ulardan yangi id yaratiladi.

```
3. var uuid = Uuid();
4. final id = uuid.v1(options: {
5.    "Male": "710b962e-041c-11e1-9234-0123456789ab",
6.    "Female": "710b962e-041c-11e1-9234-0123456789ab",
7. });
8.
9. final gender = Random().nextBool() ? "Male" : "Female";
```

- 10. **Akula:** Baliqlar populyatsiyasi minimumdan ko'p bo'lgandan keyin Akula ovni boshlaydi. Random vaqt oralig'ida akvariumdagi random bironta baliqni yeb ketadi, bu haqida konsolga yozilishi kerak.
- 11. **Baliqlar o'lishi**: Baliqlar belgilangan vaqtdan keyin o'lishi kerak. Baliqga tegishli isolate kill bo'lishi va akvarium ro'yhatidan o'chirilishi kerak.
- 12. **Populyatsiya balansi**: Baliqlar soni ko'payib yoki kamayib ketmasligi kerak.
- 13. **Ma'lumot chiqarish:** Harbir o'zgarishdan keyin konsolga nima bo'lgani va akvarium haqida ma'lumot chiqarib turishi kerak. Misol: Baliq nobut bo'ldi \n Fish info id: 12345 | gender: male \n Akvarium info baliqlar soni: 25 | male: 15 | female: 10

Batafsil ta'rif:

- 1. Fish class:
 - o O'zgaruvchilar:
 - int id baliqning noyob identifikatori.
 - String firstName baliqning ismi.
 - String lastName baliqning familyasi.
 - Enum gender baliqning jinsi ("male" yoki "female").

- Duration lifespan baliqning hayot davomiyligi.
- List<Duration> listPopulationTime baliq ko'payish vaqtlari. Vaqtlar random yaratiladi inteval [1..3]. Interval baliqlar soniga qarab ko'payadi yoki kamayadi

2. Akula class:

- o O'zgaruvchilar:
 - int id noyob identifikatori.
 - Random random tasodifiy ov gilish vagti
 - SendPort sendPort Akulani aquarium bilan bog'lash uchun
 - void waiting Akulani pausaga qo'yib qo'yish uchun metod
 - void start Akulani ishga tushirish uchun

3. Aquarium class:

- o O'zgaruvchilar:
 - Map<String, Isolate> fishList akvariumdagi barcha baliqlarning ro'yxati. Bu yerda String baliq id
 - Random random tasodifiy sonlarni yaratish obyekti.

4. Asosiy class:

- Dastlabki baliq populyatsiyasini yaratadi.
- Har bir baliq uchun isolates ishga tushiradi.
- Akvariumdagi baliqlar populyatsiyasini nazorat qiladi.

O'g'il bola ismlar:

Clifton Hubbard

Daniel Harmon

Damon Holt

Frederick Fields

Bernard Horn

Merle Whitehead

Jeff Frey

Victor Roy

Darrell Phillips

Tony Sharp

Israel Andersen

Cecil Thompson

Gabriel Hamilton

Dan Combs

Neal Morrow

Terrence Rowland

Steve Warren

Julius Parker

Louis Morris

Russ Conway

Emmanuel Patrick

Jessie Lozano

Bobby Sloan

Saul Ritter

Edgar Brady

Andrew Case

Duane Bell

Ivan Mendoza

Eddie Atwood

Carroll Flynn

Rene Conrad

Cary Ferguson

Roberto Gorman

Jimmie Nichols

Scott Rogers

Vincent Dugan

Maurice Nichols

Adrian Ellison

Harold Gleason

Young Booker

Leo Pearson

Barry Salinas

Armando Weaver

Eric Andrade

Sidney Lyons

Zach Zuniga

William Grey

Milton Fritz

Ricardo Rush

Edward Peters

Qiz bola ismlar:

Dixie Hogan

Leigh Khan

Betsy Myer

Candice Kline

Rhonda Moody

Jenna Brown

Sheila McMahon

Rachel Singleton

Rita Mays

Leah Ritter

Sophia Roberts

Natalie Ward

Gabriela Lewis

Rosie Booker

Crystal Crane

Patti Blevins

Elsa Mathis

Sonja Lester

Iris Bauer

Carrie Irwin

Lourdes Cramer

Susana McIntosh

Antonia Hess

Shannon Meyers

Tasha Gibson

Paula Neal

Carmen Minor

Nadine Scott

Sonya Charles

Cecilia Reeves

Janine Medina

Kay McDowell

Fran Franco

Sandra Holland

Beth Steward

Geneva O'Brien

Nell Welsh

Denise Delgado

Joni Calhoun

Abigail Lloyd

Brenda Johnson

Camille Roach

Stefanie Marquez

Janet Branch

Michele Butler

Rebekah Bassett

Marcia Lyons

Theresa Carson

Natasha Meadows

Francisca Bright