## (1) BUBBLE SORT SIMULATSICON

- Voyderb 2 annu ning toxab rumuma	paiemaie,
LOEND : [ 64; 34; 25; 12; 22; 11; 90]	7
1. SAMM 64 & 34 64 > 34 > VAHE	TAN KOHAD
loend: [ 34; 64; 25; 12; 22; 11; 90]	
2. SAMM 64 > 25 > VAHETAN COHAD	
Loeud: [ 34; 25; 64; 12; 22; 11; 30]	puldan . Min
3. SAMM 64 > 12	
Loud: [ 34; 25; 12; 64; 22; 11; 90]	
4. Jamm 64> 22	
wend [ 34; 25; 12; 22; 64; 11; 90]	
3. SAMM 647 M	
Loud [34; 25; 12; 22; 611; 64; 90]	(64 < 90)
6. SAMM & would [ 25, 34, 12, 22, 11, 64, 90]	(347 > 25)
7. SAMM & Lound [ 25, 12, 34, 22, 11, 64, 90]	(34>12)
8. SAMM & bound [25, 12, 22, 34, 11, 64, 90]	(34 > 22)
9 SAMM & Wend [25, 12, 22, 11; 34,64, 90]	(34 < 64)
10. SAMM 2 Lound [# 12, 25, 22, 11, 34, 64, 90]	
11. SAMM & wend [12, 22, 25, 11, 34, 64, 90]	(25 > 22)
12 SAMM & Loud [12, 22, 11, 25, 34, 64, 90]	(25 > 11)

1. Volan awu 23
2. Vouden anny 29 annuga 15.
3. uas 29 < 15 - d. 29 > 15.
2 vouder any as a
# 15 dan anny 15 eximente hohale
2. Vouden einis jangmint auve, nund on relle
unesti 29 jaugmine auvugg 56, 29 < 56
2. voudeen awn 29 77-90. 29 × 77.
2- voydlen annu. 29 18-90. 18 < 29
A toxan arvu 18 leine houale.
[29] [15] [56] [77] [18]
30 . J 60
Vailarnin varduis
Vailoxim, Add vod. part. vod
15 < 29   15   29   56   77   18
valertan kohti
vailermin vordeus
voulerein .
20 120
25 < 56 . 25 < 77
valulari cioluli
15 18 29 56 77
2 voudlus

SAMM & would [12, 22, 11, 25, 34, 64, 90] (12<22) 14 SAMM & Locud [12,11,22,25,34,64,30] (22>11) 15 SAMM & Lound [#5 11,18, 22, 25, 34, 64, 30] southwised lahti on kinjulatud igo Muntus, mida Bubble Sout legenia pedes. vouden leable awy valitan would lun sama, mida sammus 1 ja houdan. uii leang leemi igg paremal axuy arm ou ouyum. (2) SELECTION SORT VISUALISEERIMINE votab listi eximere aux ning leavilles reda leui lõige väikseimat, rouleevib relle javop, otrib jaugmit vailexmat LOEND: [29; 15; 56; 77; 18] 29. jäetalere meelde ja haleatalere olima las untio on vailerement. LOPP 29 (START 2 jay . Jall votay sama annu votan aewy leas voyceldid vouden aunu ·auxudou coile jaugminega leanayas janjekondas? leas eximene. ary on runnem/ votay auv - 1111 leine vaileren Svalltan aura eximere acivi teine vantu

11 × 2

- elmainitulent ajakompularus (ul) au elmainitulent ajakompularus (ul) au elmainitulent ajakompularus (ul) au elmainitulent ajakompularus (ul) eu lea elmainitulent soutil.
- 6) Kui variata üluüldirelt milline aleles parim rus Counting sout võimaldab juba elleanlud vahemileus (1-100) rouleurida ming rus peab lugema ainuet loendis elementide erinemist. Lisales sobib rue härtijutväiterre vahemiluoga täisauvude jaales.

kui aga poliineda eilmainitud noutimisalgouitmide sus Beledion Sout? Fig. Jeaghilealt neil ei tundu suunt valut olivat etjalise Generaliuse ja. mahu poolist.

- 5 STABILLOUS JA ADAPTIIVOUS SORTIMISEL
  - a) Stabillue on the souleurimisalapuritum, mis .

    <del>johnned</del> jätab samaruque väälduraga elemendid
    prale souleruimist samaru jänjekouda.

NT. [5; 7; 11; 5; 8; 5] - LOENO

1. 2. 3. 4. 5. 6. - indulated, unis naitana
luis element alquet
lights pailenes

[5; 5; 5; 7; 8; 11] - soulewind wend.

Seda saalus eduleat lelia. Insurtion Sout. soulevimisalapuitui larutades. ( ru ou stabiilue)

LOEND [ 813,5, 4,7,6,2]

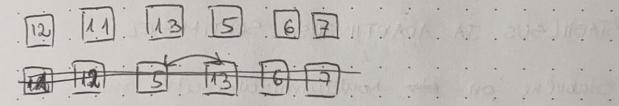
- a) Bubble Soid [3/5/18. 3,5,4,7,6,2,8]
- 6) Suedion Sout [2,8,3,5,4,7,6,]
- o) Innution Sout [8,5,3,4,7,6,2]
- 3 INSERTION SORT PRAKTIKAS

LOEND [12,11,13,5,6,7]

- voudleu aunu rellent varaitent ja hightan gannypoole.

and policy and minimum about of and

willian skilling the alter we dispose



 10 km Loend ou osaliselt soulevitud Laub Laendi
Noutevirmiscles relatelisett
Valu samme vaja

2. kaplikult saab relateliselt
leinerti elementide leohad
ana vahetada, lein need on
julga osaliselt routevitud

3. pole vajadust mingit
osa unerli routevida

idaphivoles. Noutevimisalgouitmiles saab, lugada algoritmi mille leirus sours, sours, leas. local on jula soulewited oralized voi mite. Naireles leui loend on juba pooleedi souditud vagu. vaium ilusandus ny. 3. Insulion Souti puliul, sus hules leng valuem lood. doengus 1 toodud tabeli pulul voib elmainitud boement algoritmint adaptivious engeda vaid Insurtion Ja Bubble Souli, rest veil ou parimal juill ajaline beenleus. o(n) ja lechemine/hamimal. o(412). Samas lui Selection Soulie ou hoile sama - 0 (n^2).

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