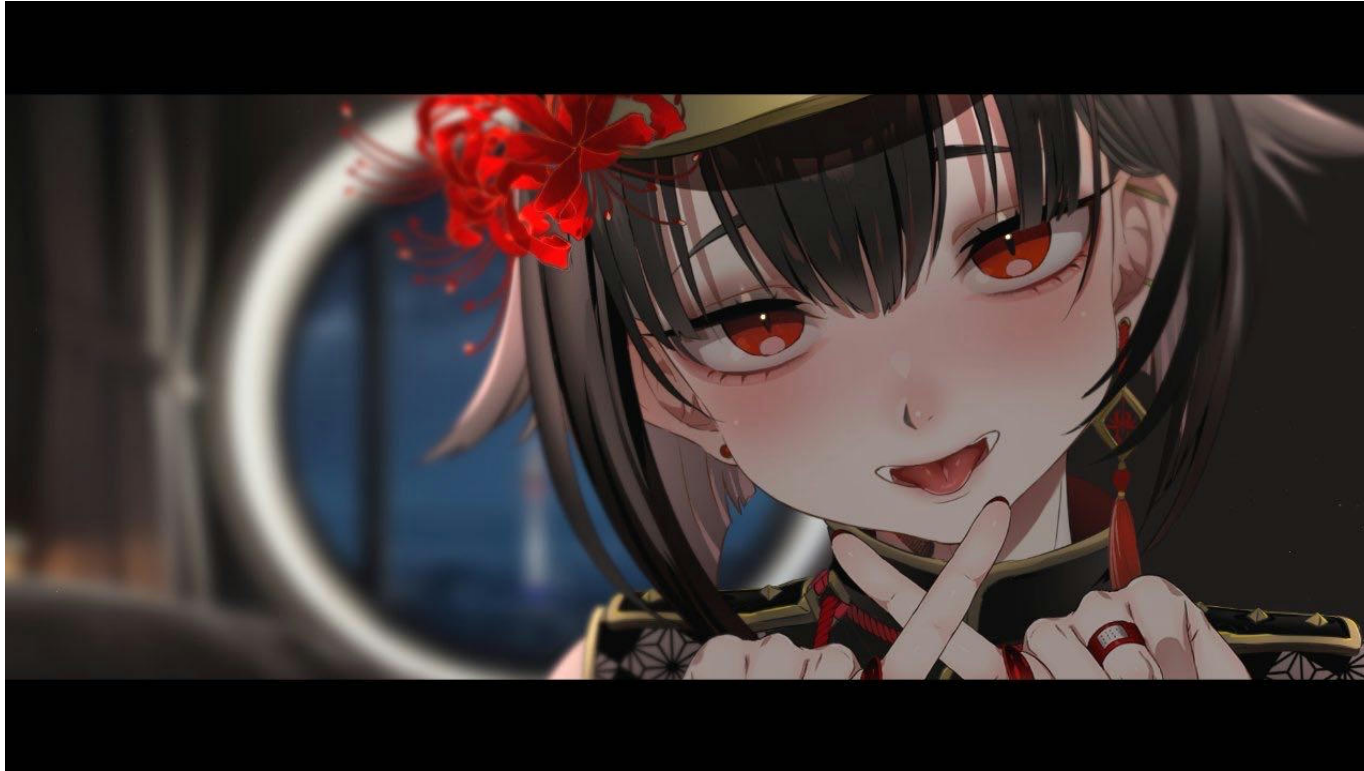


Individual problems in IOL 2023: An individual analysis of mine

Ziche Chen (ziche.chen@outlook.com)



Problem 1

1. piri-y' /piri-y'/ :: imbir'i /in-piri-'/ — see
2. im'ay /im'a-y'/ :: inim'a /in-im'a-'/ — say, tell
3. aplay' /apla-y'/ :: inapal'a /in-apla-'/ — open (it)
4. k'aniy' /k'ani-y'/ :: in-k'an'i /in-k'ani-'/ — trap
5. hikniy' /hikni-y'/ :: in-hikni'i /in-hikni-'/ — obey, believe
6. tundiy' /tunti-y'/ :: indunat'i /in-tunti-'/ (!) — play (an instrument)
7. şakşay' /şakşa-y'/ :: inşakats'a /in-şakşa-'/ — steal
8. kişiy' /kişi-y'/ :: in-gits'i /in-kişi-'/ — roast
9. hik'ay /hik'a-y'/ :: in-hik'a /in-hik'a-'/ — sew, weave
10. hiniy' /hini-y'/ :: in-hin'i /in-hini-'/ — learn, know
11. yuḷmuy' /yuḷmu-y'/ :: in-yuḷum'u /in-yuḷmu-'/ — suck candy
12. iplay' /ipla-y'/ :: inipal'a /in-ipla-'/ — bathe (it)
13. p'ahniy' /p'ahni-y'/ :: in-p'ahan'i /in-p'ahni-'/ (!) — dig
14. ter'oy /ter'o-y'/ :: inder'o /in-dero-'/ — kill

- 15.
- 16.
- 17.
- 18.
19. imbiiri? /in-<V>-piri-?/ — I was seen
20. hik'aŋ /hik'a-ŋ/ — I sewed, wove (it)
21. iŋk'ata? /in-k'ata-?/ — I lie down
22. kirin' /kiri-n'/ — I pulled (it)
23. insiiru? /in-<V>-siru-?/ — I hurried
24. inişapa? /in-işpa-?/ — I leave (!)
25. inima? /in-im'a-?/ — I am being told / (it) is being said to me
26. şawşan' /şawşa-n'/ — I planted (it)
27. şur'uŋ /şur'u-ŋ/ — I chose (it)
28. indeero? /in-<V>-ter'o-?/ — I was killed; I died
29. imbiri? /in-piri-?/ — I am being seen

30. heeroʔ /<V>-hero-ʔ/ — it was smoothed out (!)
31. p'ihnaʔ /p'ihna-ʔ/ — it leaped
32. şawşaʔ /şawşa-ʔ/ — it was planted (!)
33. ak'okamaʔ /a-k'okama-ʔ/ — it kneels
34. ateroʔ /a-ter'o-ʔ/ — it is being killed; it dies
35. k'aataʔ /<V>-k'ata-ʔ/ — it lay down
36. asiruʔ /a-siru-ʔ/ — it hurries
37. işpaʔ /<V>-işpa-ʔ/ — it left (!)
38. aşakaşaʔ /a-şakşa-ʔ/ — it is being stolen (!)
- /in- <V> -ʔ/ 1sg past passive or 1sg past intransitive
 - /-ŋ/ 1sg past transitive
 - /in- -ʔ/ 1sg present passive or 1sg present intransitive
 - /-n'/ 1sg present transitive
 - /<V> -ʔ/ 3sg past passive or 3sg past intransitive
 - /a- -ʔ/ 3sg present intransitive or 3sg present passive

Problem 2

1. nuta **syka-ru** ny-kanawa-te uwa-mukary — I gave my canoe to her.
2. ny-kanawa-te **ny-syka-ru** uwa-mukary — I gave my canoe to her.
3. pita **ãta-ry** ĩpurãã — You (sg) drank the water.
4. kyky **myna-ru** ny-herêka sytu-mukary — The man brought my blood to the woman.
5. herêka-txi **u-ãta-ry** sytu — The woman drank the blood.
6. nhi-ximaky-te **pi-xinhika-ry** — You (sg) remembered my fish (sg).
7. pi-txipary-te **u-myna-ry** kyky-mukary — She brought your (sg) banana to the man.
8. hãtakuru **xinhika-ry** n-aiku-te — The girl remembered my house.
9. sytu apy **y-syka-nu** nuta-mukary kyky — The man gave the woman's bone to me.
10. nh-ĩpurãã-te **n-ãta-ry** — I drank my water.
11. kywĩ-txi **a-puka-ry** — He found the head.
12. ywa **myna-nu** kyky uky nuta-mukary — He brought the man's eye to me.
13. ximaky **nhika-ry** apĩ-txi — The fish (sg) ate the bone.
14. hãtakuru txipary-te **na-puka-ry** — I found the girl's banana.

15. ximaky kywy **i-nhika-ry** — He ate the fish's (sg) head.

16. hãtakuru **u-apuka-ru** — She found the girl.

- Word order: S V O P, O V P S, P-or P-ed
- $\tilde{i} \rightarrow y / _ \#$
- Nominal morphology:
 - /-mukary/ allative
 - /n(y)- -te/ my (canoe, house), /nh(i)- -te/ my (fish, water)
 - /pi- -te/ your (sg) (banana)
 - /-te/ NP's (girl's banana), /-Ø/ NP's (woman's bone, man's eye, fish's head)
 - otherwise /-txi/ (head, bone, blood), /-Ø/ (water, girl)
- Verbal morphology:
 - Subject (no preverbal subject NP): /n(a)-/ 1sg, /A-/ 3sg, /u-/ 3sg female, /pi-/ 2sg
 - (Indirect) object: /-ru/ 3sg female, /-ry/ 3sg non-female, /-nu/ 1sg

Problem 3

1. o+b-dahetok — You (sg) really returned.
2. nak+e-dahetok — We returned.
3. nam+bat-ihwin — Aw, I cried.
4. nam+b+e-otab — We really chased you (pl) away.
5. um-kul<ay>awn — He laughed at you (sg) in vain.
6. e-keseh — You (pl) spat on him.
7. u+bat+e-huy<an>ab — Aw, you (sg) silenced us.
8. nak+um-hoyab — I silenced you (pl) in vain.
9. nam+bam+e-yad<ay>awn — Oh, we left you (sg) behind!
10. e+b+e-yad<an>awn — You (pl) really left us behind.
11. i+bat+um-yad<e>wn — Aw, you (pl) left him behind in vain.
12. a-is<an>ab — He cut me in half.
13. o+bam-es<e>b — Oh, you (sg) cut him in half!

- Constituent 1
 - Subject:
 - [nam-, nak-] 1
 - [o-, u-] 2sg
 - [e-, i-, Ø-] 2pl
 - [a-, Ø-] 3sg
 - Note on procedure: introduce phonology to grammatical variants.
 - /[^]bat/ aw, /bam/ oh, /b/ really
 - /-um/ in vain
 - /-e/ plural subject that is not 'aw' or 'aw' plural object;
- Constituent 2
 - Object infixes: /[^]ay/ 2sg, /[^]an/ 1, /E/ 3sg, /Ø/ 2pl.

Problem 4

1. ni **mawinēskom** *ik* — he challenges me
2. ki **wāpam** *in* āw āw — you (pl) see me
3. ki **nakin** *in* ān — you (sg) stop us, you (pl) stop us
4. ni **kakwēcim** *ān* ān ak — we ask them
5. ki **wīcih** *āw* — you (sg) help him
6. ni **kakwēcim** *ān* ān — we ask him
7. ni **wāpam** *āw* — I see him
8. ki **mawinēskom** *in* — you (sg) challenge me
9. ni **mawinēskom** *ik* on ān ak — they challenge us
10. ki **kakwēcim** *ik* — he asks you (sg)
11. ki **wāpam** *itin* ān — we see you (sg), we see you (pl)
12. ni **nakin** *āw* ak — I stop them
13. ki **wīcih** *ik* ow āw — he helps you (pl)
14. ki **nakin** *ik* w ak — they stop you (sg)

15. ki **wāpam** āw āw ak — you (pl) see them
16. ki **wīcih** *itin* — I help you (sg)
17. ē- **nakin** āyēk — as you (pl) stop him
18. ē- **wīcih** ak — as I help him
19. **mawinēskom** *ik* oyāhkwāwi — if they challenge us
20. **wāpam** aci — if you (sg) see him
21. **wīcih** itako — if I help you (pl)
22. ē- **wāpam** ikoyēk
23. ni **nakin** ikonān
24. ki **kakwēcim** āwāw
25. ki **wīcih** itināwāw

- Prefixes: /ki-/ \exists 2, /ni-/ $\neg\exists$ 2.
- Suffixes, SLOT I:
 - /-ik/ $3 \rightarrow 1$ OR $3 \rightarrow 2$.
 - he \rightarrow me, they \rightarrow us, he \rightarrow you (sg), he \rightarrow you (pl), they \rightarrow you (sg).

- /-in/ 2 → 1.
 - you (pl) → me, you (sg) → us, you (pl) → us, you (sg) → me.
- /-itin/ 1 → 2
 - we → you (sg), we → you (pl), I → you (sg)
- /-ān/ 1pl → 3.
 - we → them, we → him.
- /-āw/ 1sg → 3 OR 2 → 3
 - I → him, I → them, you (sg) → him, you (pl) → them.
- Suffixes, SLOT II:
 - /-on/ they → us
 - /-ow/ he → you (pl)
 - /-w/ they → you (sg)
- Suffixes, SLOT III:
 - /-āw/ 2 subj > 2pl subj
 - /-ān/ 1 > 1pl

- Suffixes, SLOT IV
 - /-Ø/ 2 > 2sg/2pl / 1pl
 - /-āw/ 2 > 2pl / 1sg, 2sg, 3
 - /-ak/ 3 > 3pl
- Unless specified, X > 3sg.
- Avoidance of /-āw, -āw-āw, -āw-āw-āw/ by syncretism.

Problem 5

- baashuunni
 - $7 = (5 + 2)$
- [beɲjaaga] na [niŋkin]
 - $21 = (20) + (1)$
- [ŋkwuu taanre] na [beeshuunni] na [kaŋkuro]
 - $285 = (80 \times 3) + (20 \times 2) + (5)$
- [kampwoo] na [ŋkwuu shuunni] na [beetaanre] na [baani]
 - $626 = (400) + (80 \times 2) + (20 \times 3) + (5 + 1)$
- [kampwɔhii sicyɛɛre] na [beɲjaaga] na [kɛ] na [baaricyɛɛre]
 - $1639 = (400 \times 4) + (20) + (10) + (5 + 4)$
- [kampwɔhii shuunni] na [kɛ]
- [ŋkuu] na [baataanre]