Assignment 2
Due Wed 2-16 2005

Analyze the following data providing constraints and rankings relevant to the analysis of Sanskrit desiderative reduplication. (Some modifications have been introduced in the data to simplify the analysis).

(a) C-initial roots (RED and ROOT are in bold characters).

Notation:
<y> = IPA [j], <c> = IPA [tʃ], <ch> = [tʃʰ]; <j> = IPA [dʒ], <v> = IPA [w]

Syllabification: assume that forms are syllabified regardless of the location of suffix boundaries as V.CV and, in general, VC.CV. Some CC sequences are syllabified as V.CCV, perhaps, if a prefix boundary comes before the CC cluster, though the extent of this option is uncertain. You can make conjectures on this point, if this facilitates the analysis.

Morphemes: the desiderative is marked by the reduplication and by a suffix whose allomorphs are -iṣ and s (or ṣ, depending on context). You need not explain what causes the s/ṣ/iṣ alternation.

Root	Reduplicated form	Gloss
pa:	**pipa:**-s-a:mi	'drink'
tvar	**titvar**-iṣ-a:mi	'hasten'
pṛcʰ	**pipṛcʰ**-iṣ-a:mi	'fashion, make'
ji:v	**jiji:v**-iṣ-a:mi	'live'
skand	**kiskand-iṣ-a:mi**	'leap'
mu:r	**mumu:r-ṣ-a:mi**	'die'
dʰma:	**didʰma:**-s-a:mi	'blow'
bʰaj	**bibʰaj-iṣ-a:mi**	'divide'
vid	**vivid-iṣ-a:mi**	'know'
kṣubʰ	**kukṣubʰ-iṣ-a:mi**	'quake'
çay	**çiçay-iṣ-a:mi**	'lie'
man	**miman-iṣ-a:mi**	'think'
stan	**tistan-iṣ-a:mi**	'thunder'
pʰal	**pipʰal-iṣ-a:mi**	'burst'
syu	**susyu-ṣ-a:mi**	'sew'
syand	**sisyand-iṣ-a:mi**	'move on'
smay	**sismay-iṣ-a:mi**	'smile'
sup	**susup-s-a:mi**	'sleep'
sru	**susru:-ṣ-a:mi**	'flow'
spʰurj	**puspʰurj-iṣ-a:mi**	'rumble'

At this point you can sketch a preliminary analysis in which phonotactic constraints and constraints on correspondence (betw. input and output or betw. base and reduplicant) interact to yield the attested forms. You may consider (but need not, if you have a better story) the loss of stop aspiration in forms such as ***bibʰaj-iṣ-a:mi*** as a reflex of the Obligatory Contour Principle. If so, you will need to formulate the OCP in an explicit way,

to insure the correct result. The other option is to view this as a markedness effect: marked voiced aspirates disappear from RED.

Then incorporate into the analysis the data below.

(b) V-initial roots

aj	**ajij-iṣ-**a:mi	'drive'
und	**undid-**iṣ-a:mi	'wet'
arc	**arcic-**iṣ-a:mi	'shine'
akṣ	**akikṣ-**iṣ-a:mi	'attain'
ubj	**ubjij-**iṣ-a:mi	'force'
uncʰ	**uncicʰ-**iṣ-a:mi	'glean'
ay	**ayiy-iṣ-**a:mi	'go'
indʰ	**indidʰ-**iṣ-a:mi	'make fire'
ikṣ	**ikikṣ-**iṣ-a:mi	'see'
oṣ	**oṣiṣ-**iṣ-a:mi	'burn'
edʰ	**edidʰ-**iṣ-a:mi	'thrive'

Syllabification: assume that any prevocalic C is an onset, that **kṣ** is also an onset and that only sonority ascending clusters can be onsets (hence not **nd, rc,** or **bj**). This assumption has helped me but no representations are made about its usefulness since you may discover a different solution.

Guidelines about the contents of your solution:

(i) Some (possibly not all) of the failed candidates that must be excluded:

*! Wrong	☞ Right
sistan-iṣ-a:mi	**tistan-**iṣ-a:mi
ṣukṣubʰ-iṣ-a:mi	**kukṣubʰ-**iṣ-a:mi
mismay-iṣ-a:mi	**sismay-**iṣ-a:mi
divid-iṣ- a:mi	**vivid-**iṣ-a:mi
uncuc-iṣ-a:mi	**uncic-**iṣ-a:mi
ununc-iṣ-a:mi	**uncic-**iṣ-a:mi
uninc-iṣ-a:mi	**uncic-**iṣ-a:mi
ubibj-iṣ-a:mi	**ubjij-**iṣ-a:mi
u.ubj-iṣ-a:mi	**ubjij-**iṣ-a:mi
ububj-iṣ-a:mi	**ubjij-**iṣ-a:mi
indʰid-iṣ-a:mi	**indidʰ-**iṣ-a:mi
indid-iṣ-a:mi	**indidʰ-**iṣ-a:mi

(ii) Present first informal generalizations that tell the reader what you believe is the pattern to be described by your formal solution. The informal description should include your thoughts about how to divide the reduplicated form into root and reduplicant.

(iii) Formulate explicitly all constraints you use, unless they are strictly identical to

constraints presented by McCarthy &Prince or some other quotable and accessible source. For new constraints it is especially important that you be clear in your presentation regarding how these constraints will evaluate candidates.

(iv) After every constraint say a word, informally, about the sorts of data or generalizations you plan to use it for.

(v) Establish pairwise rankings if possible or at least rankings of the form Constraint (a) or (b) - or (a) and (b) - must outrank (c) illustrating your reasoning with tableaux. You may use OT Soft but whether or not you do so please identify your ranking arguments.

(vi) Provide a Hasse diagram for the global picture.