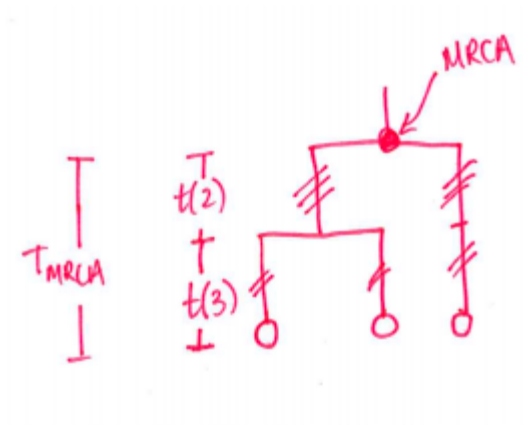
Subject: Fwd: bioinformatics tute 1
From: Alex Jackson <a1646282@student.adelaide.edu.au>
Date: 21/09/15 13:49
To: Alex Jackson <aj123@internode.on.net>

Begin forwarded message:

> **From:** Adam Rohrlach <a1077745@student.adelaide.edu.au>
> **Date:** 14 September 2015 11:28:29 am ACST
> **To:** Uni <alex.jackson@student.adelaide.edu.au>
> **Cc:** Nigel Bean <nigel.bean@adelaide.edu.au>, Jonathan Tuke <jonotuke@gmail.com>
> **Subject: Re: bioinformatics tute 1**

> Hi Alex,
>
> Your code looked pretty good, with only one error, and one stylistic suggestion. The amount of commenting in your code was great though! Jono would be proud.
>
> The stylistic suggestion is, if you know that you're going to take 1000 random samples, then initialise Y with that knowledge in mind. That is, instead of "Y = NULL", use "Y = rep(0,1000)". That way R isn't continually making new vectors to replace old ones in the loop, but just replacing the values *in* the same vector (fundamentally). It didn't really matter here, but might be a good habit to get into for bigger data sets.
>
> The error is just the interpretation of what the T(k) involve. Define Tb to be the total tree branch length. Your code sort of had Tb = 2*T(3) + T(2). However, from the picture below, you can see that the branch that is furthest right is made up of T(3) + T(2). Correctly, you got that there were two branches of length T(3), but then you only included one lot of T(2) (which I think you may have though was the whole of the right branch.
>
> So there is the two small branches (2*T(3)), and then the little branch above them (T(2)), and finally the far right branch (T(2)+T(3)), so Tb = 3*T(3) + 2*T(2).



As you can see, I'm a gifted artist.

Good work,

Ben

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Ben Rohrlach,
PhD Candidate, Mathematical Sciences
B Ma Sc, M.Phil(Stat)
The University of Adelaide
SA 5005
Australia

On 11 September 2015 at 21:04, Uni <alex.jackson@student.adelaide.edu.au> wrote:

> Hi Ben,
>
> When you've got a bit of time could you please have a look at my attempt at the first bioinformatics tute and tell me if it looks okay?
>
> Thanks,
>
> Alex