Re: Consecutive runs in mathematica

Source: http://sci.tech−archive.net/Archive/sci.math.symbolic/2005−03/0099.html

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From: Tony King (*mathstutoring_at_ntlworld.com*)
Date: 03/09/05

Date: Wed, 09 Mar 2005 14:38:50 GMT

Thank you − I have modified your code slightly and it seems to be working perfectly

In[72]:=
v = Table[trialQ[k], {k, 1, 1000000}];
In[73]:=
t = Split[v];

({Max[(If[First[#1] === True, Length[#1], 0] &) /@ t],

Max[(If[First[#1] === False, Length[#1], 0] &) /@ t]}) // Timing

Out[74]=
{4.157 Second, {5, 2}}

"Dana" <delouis@bellsouth.net> wrote in message
news:haCXd.10644$c72.2059@bignews3.bellsouth.net...
> *Don't know if this would be efficient for a large array (million terms),*
> *but here is one way. I understand your "true/false" to be variables, and*
> *not the built−in True & False.*
>
> *v = {true, true, false, true, true, true, false, true};*
>
> *t = Split[v]*
> *{{true, true}, {false}, {true, true, true}, {false}, {true}}*
>
> *Max[(If[First[#1] === true, Length[#1], 0] &) /@ t]*
> *3*
>
> *Max[(If[First[#1] === false, Length[#1], 0] &) /@ t]*
> *1*
>
>
> *−−*
> *Dana DeLouis*
> *Win XP & Office 2003*
>
>

> *"Tony King" <mathstutoring@ntlworld.com> wrote in message*
> *news:hiBXd.138$194.116@newsfe2−gui.ntli.net...*
>> *I have a list which looks something like*
>>
>> *{true,true,false,true,true,true,false,true.....}*
>>
>> *that contains something like a million terms, and I would like some code*
>> *to return the maximum length of consecutive runs of trues and the maximum*
>> *length of consecutive runs of false.*
>>
>> *Any ideas / assistance would be greatly appreciated.*
>>
>> *Best wishes*
>>
>> *Tony*
>>
>
>