Subject: Re: histogram question
Posted by Jim Pendleton on Thu, 09 Aug 2001 22:01:57 GMT

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"Bill B." <billb@attinet.com> wrote in message
news:269b6343.0108090726.e32298a@posting.google.com...
>> how can you turn the former into the latter without a loop? This is
>> somewhat similar to Pavel's running chunk index problem earlier in the
>> year. Finding an answer is not trivial. It would apply directly to
>> this problem, where the pairs are adjacent elements in the reverse
>> indices vector. Any takers?
>>
>
> I've encountered a few areas where certain logic problems cannot be
> solved without a loop in IDL. Usually, this always points to the fact
> that there are certain IDL functions that (logically) insist upon
 scalar parameters.
> -Bill B.
>
Okay, here's an effort using two histograms instead of one, just to
get some interest going. No visible loops, but not the sort of
stuff you put in production code. With this as a head start, let's
see the single-histogram approach.
A = [-1,3,7,12,15,18,20,20]; The solution must work with negative and
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repeating numbers
NPair = N Elements(A)/2
MaxA = Max(A, Min = MinA)
D = MaxA - MinA
P = Lindgen(NPair)*2
H1 = Histogram(A[P], Max = MaxA, Min = MinA, R = R1)
H2 = Histogram(A[P + 1], Max = MaxA, Min = MinA, R = R2)
x1 = (R1 - MaxA)[0:D]
x2 = (R2 - MaxA)[0:D]
C = [A, ((x1 \text{ ne } x2)*(Lindgen(D + 1) + MinA) > MinA) < MaxA]
C = C[Sort(C)]
C = C[Uniq(C)]
Print. C
; Loop version
B = Indgen(NPair)*2
For I = 0L, NPair - 1 Do Print, A[B[I]] + Lindgen(A[B[I] + 1] - A[B[I]] + 1)
```

Extra credit for minimal use of "[]" notation.

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