

```

function [x,n] = impseq(n0,n1,n2)
% Generates x(n) = delta(n-n0); n1<=n<=n2
% -----
% [x,n] = impseq(n0,n1,n2)
%
n = n1:n2; x = (n-n0) == 0;
end

function [x,n] = stepseq(n0,n1,n2)
% Generates x(n) = u(n-n0); n1<=n<=n2
% -----
% [x,n] = stepseq(n0,n1,n2)
%
n = [n1:n2]; x = [(n-n0) >= 0];
end

```

**a.  $x(n) = 2(n+2)-(n-4)$ ,  $-5 \leq n \leq 5$ .**

```

n = [-5:5];
x = 2*impseq(-2,-5,5)-impseq(4,-5,5);
subplot(2,2,1);stem(n,x); title('Sequence in Problem 2.1a');
xlabel('n'); ylabel('x(n)');

```

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