```
clear all;
clc;
G = zpk([], [-1, -1], 1);
[zG, pG, kG] = zpkdata(G, 'v');
x0 = 20*ones(4, 1);
[xopt, fopt, flag, iter] = fminsearch(@PIDOptim, x0);
P = xopt(1)
I = xopt(2)
D = xopt(3)
N = xopt(4)
        Elapsed time is 0.829213 seconds.
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Elapsed time is 0.110699 seconds.
Elapsed time is 0.116333 seconds.
```

```
Elapsed time is 0.110687 seconds.
Elapsed time is 0.112972 seconds.
Elapsed time is 0.109070 seconds.
Elapsed time is 0.113292 seconds.
Elapsed time is 0.115691 seconds.
Elapsed time is 0.112064 seconds.
Elapsed time is 0.109130 seconds.

P =
     6.1942e+03

D =
     2.8113e+03

N =
     1.2654e+03
```

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