```
%Matlab code for finding prime
clear all
close all
%finding primes upto n
n=60000;
A=1:60000;
[prime,output]=listprimes(n);
fprintf('for n=%d\n',n)
vv=find(output>0);
fprintf('6000 th prime is %d\n',A(vv(6000)))
%function for finding prime
function [prime,output]=listprimes(n)
   A=1:n;
   k=2;
   while k<=sqrt(n)</pre>
       c=k+k:k:n;
       for jj=1:length(c)
           A(c(jj))=0;
       end
       CC=find(A~=0);
       dd=find(CC>k);
       k=CC(dd(1));
   end
   A(1)=0;
   prime=A;
   prime(prime==0) = [];
   output=A;
   output(find(output>0))=1;
end
for n=60000
6000 th prime is 59359
```

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