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#include<iostream.h>
#include<conio.h>
#include<math.h>

int main(){
    //declaring variables
    int n;
    bool flag;

    //Getting Input from user
    cout<<"Enter a (positive) number: ";
    cin>>n;

    // Calculating primes smaller than n
    cout<<"\nPrime numbers smaller than "<<n<<" are: "<<endl;
    for(int i=2; i<n; i++)
    {
        // number considered prime initially
        flag = true;
        for(int j=2; j<= sqrt(n) ;j++)
            // alternate implementation : for(int j=2; j<i ;j++)
            {
                //even division
                if(i%j==0 && j != i)
                {
                    // number proven not prime
                    flag = false;
                    break; }
            }
        if(flag == true)
            cout<<" "<<i;
    }

    getch();
    return 0;
}

```