Test

December 10, 2018

1   Solutions to some of the test problems

Problem 3

```
In [17]: #include <stdio.h>

         int main(){
             for(int i=1; i<=1000; i+=2)
             {
                 if(i%9 == 0) // is dividable by 9
                 {
                     continue;
                 }
                 printf("%d ", i);
             }
         }
```

1 3 5 7 11 13 15 17 19 21 23 25 29 31 33 35 37 39 41 43 47 49 51 53 55 57 59 61 65 67 69 71 73

Problem 4

```
In [ ]: double fun(double a, double b, double c)
        {
            double res = 0;
            for(int i=1; i<=40; ++i)
            {
                res += a * exp(1.0/ (i + 1.0)) + 1.0/b;
            }
            return res;
        }
```

Problem 5

```
In [ ]: double fun(int n)
        {
            double x0 = 2;
            double res = 0;
            for(int i=1; i<=n; ++i)
```

```
    {
        double x = -0.5 * x0 * sqrt(fabs(x0));
        x0 = x;
        res += pow(-1, i+1) * 1.0 / x;
    }
    return exp(res);
}
```