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```
#ifndef _MOMENTS_H
#define _MOMENTS_H

#define NGAMMA 300
#define EPS 3.e-14

double gammln(double xx);
void gauleg(double x1, double x2, double x[],
            double w[], int n);
double gammadensity(double x, double a, double b)
    ;
double factrl(int n);
double Moments(int n,double r,double sigma,
            double t);
double logdens(double x,double m,double sg);
double Der1Logdens(double x, double m, double sg)
    ;
double Der2Logdens(double x, double m, double sg)
    ;
double Der3Logdens(double x, double m, double sg)
    ;
double Der4Logdens(double x, double m, double sg)
    ;
double momlog(int n, double mean, double var);
double Normdens(double x, double m, double sg);
double Der1Normdens(double x, double m, double sg
    );
double Der2Normdens(double x, double m, double sg
    );
double Der3Normdens(double x, double m, double sg
    );
double Der4Normdens(double x, double m, double sg
    );

#endif
```

References