

[illegible]

```

        if( fabs(b - D) < fabs(b + D) ){
            E = b + D;
        }else{
            E = b - D;
        }

        h = (-2*func(p2))/E;
        p = p2 + h;

        printf(" %d.\t\t%f , %f\t\t%f , %f\n",i,creal(p),cimag(p),creal(func(p)),cimag(func(p)));

        if( (pow(creal(h),2) + pow(cimag(h),2)) < (tolerance*tolerance)){
            break;
        }

        p0 = p1;
        p1 = p2;
        p2 = p;
        h1 = p1 - p0;
        h2 = p2 - p1;
        ro_1=(func(p1)-func(p0))/h1;
        ro_2=(func(p2)-func(p1))/h2;
        d=(ro_2-ro_1)/(h2+h1);
        i = i + 1;
    }
}

int main(){
    double tolerance = 0.00001;
    muller(0.5 , -0.5 , 0 , tolerance);
    printf("\n\n");
    muller(0.5 , 1 , 1.5 , tolerance);
    printf("\n\n");
    muller(1.5 , 2 , 2.5 , tolerance);
    return 0;
}

```