```
procedure milestone2test1 {
  while (((((2)) < 5) && (var1234 >= y)) || (!(zy<=5))) {
    zy = (zy / 4 + 780 % 11 - x * (x + z));
    var1234 = ((var1234 / 7 % 0) -((0 * k/z))) + zy % var1234 * 12;
  }
  read if;
  if (if > z) then {
    if = 90 % 10;
  } else {
    if = procedure;
    while (((var1234<xy)&&((p>=k)||((((555/kkk)))       )<=66)))    && ((!(true==(zy*6))) || (17>=(q*(0)/w%e)))) {
      if (if > 1) then {
        else = else + 1;
        while (while > 1) {
          while = while + 1;
          print kkk;
          while (y > 0) {
            zy = y + x
            % x / 3;
            read zy;
            d =
            (x - xy) * (x - zy) + (y - kkk) * (y - k) - d * d;
            call computeCentroid ;
          }
        }
      } else {
        if = call + 1;
      }
      while (while > 1) {
        while
          = while + 1;
        print kkk;
      }
    }
  }
}

procedure readPoint {
      read pointx;
      read pointy;
}
procedure printResults {
      print print;
      print cenX;
      print cenY;
      print normSq;
}

procedure computeCentroid {
      count = 0;
      cenX = 0;
      cenY = 0;
      call readPoint;
      while ((pointx != 0) && (pointy != 0)) {
          count = count + 1;
          cenX = cenX + pointx;
          cenY = cenY + pointy;
          call readPoint;
      }
      if (count == 0) then {
          print = 1;
      } else {
          cenX = cenX / count;
          cenY = cenY / count;
      }
      normSq = cenX * cenX + cenY * cenY;
      call printResults;
 }
```