```
第一種函數方法:
int f(p, x, y, r)
//p is the population array, (x, y) is where the hospital is, r is the range
      int covered = 0
      for i from 0 to m:
             for j from 0 to n:
                    if |i - x| + |j - y| <= r:
                           covered += pij
                         // return the population covered in the area
      return covered
第二種函數方法:
int f(p, x, y, r)
      int covered = 0
      for j from y - r to y + r:
             for i from x - (r - abs(j - y)) to x + (r - abs(j - y)):
                    (if 0 \le i \le xLimit and 0 \le j \le yLimit)
                     // if r is in the covered area this row can be deleted
                           covered += pij
      return covered
主程式:
int f()
     input xLimit, yLimit, range, popArray[][] = {0}
     int maximumPopulation = 0
     for i from 0 to xLimit:
          for j from 0 to yLimit:
                int covered = f(popArray, i, j, range)
                if maximumPopulation < covered:
                     maximumPopulation = covered
     print maximumPopulation
```