

```
#include<stdio.h>

int main(){
    int xc, yc, r, x, y;
    scanf("(%d, %d), r = %d\n(%d, %d)", &xc, &yc, &r, &x, &y);
    long xdiff = (long)x - xc;
    long ydiff = (long)y - yc;
    long dist = xdiff*xdiff + ydiff*ydiff - (long)r*r;
    if(dist > 0) printf("Out");
    if(dist == 0) printf("On");
    if(dist < 0) printf("In");
    return 0;
}
```