#include <stdio.h>

typedef long long LL;

LL x[5010], y[5010], p[5010], q[5010];

int main()

{

LL n, m, r, d, i, j;

scanf("%lld%lld%lld", &m, &n, &r);

for (i = 0; i < m; i++)

scanf("%lld%lld", p+i, q+i);

for (i = 0; i < n; i++)

scanf("%lld%lld", x+i, y+i);

for (i = 0; i < m; i++)

{

d = 0;

for (j = 0; j < n; j++)

d += ((x[j]-p[i])\*(x[j]-p[i])+(y[j]-q[i])\*(y[j]-q[i]) <= r\*r);

printf("%lld\n", d);

}

return 0;

}