

$$m \geq 1$$

$$m = x^2 + y^2$$

$$x \geq 1$$

$$y \geq 1$$

```
for (x=1; x ≤ m; x++) {
```

```
  for (y=1; y ≤ m; y++) {
```

```
    if (x*x + y*y == m) {
```

```
      return 1;
```

```
    }
```

```
  }
```

```
}
```

```
return 0;
```

```
for (x=1; x ≤ m; x++) {
```

```
  for (y=x; y ≤ m; y++) {
```

```
if (m = x*x + y*y) { ... }
```

	1	2	3	4	...	m
1
2	⊙
3	⊙	⊙	.	.		.
4						.
⋮						.
⋮						.
m						.

```

for (x=1; x*x ≤ n; x++) {
    for (y=x; x*x+y*y ≤ n) {
        if (x*x+y*y == n) {
            return x;
        }
    }
}
return 0;

```

$$\sqrt{n}$$

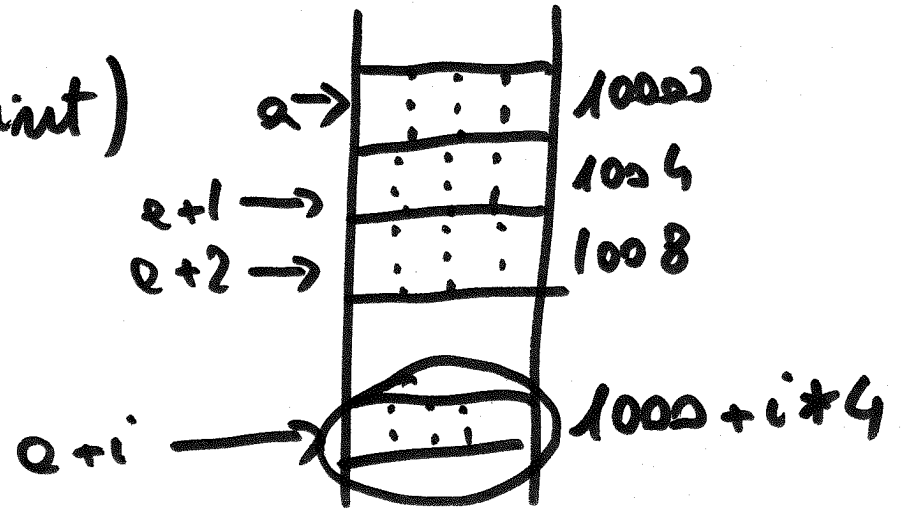
$$\leq \sqrt{n}$$

$$\leq (\sqrt{n})^2 = n$$

int *a;

$$a + i \Rightarrow a + i * \text{sizeof}(int)$$

$$\text{sizeof}(int) = 4$$



$$*(a + i) \equiv a[i]$$

char *s1 = "Prove";

