

do Loop

Example – do Loop

```
int input;  
  
// Accept input only if >= 2  
do {  
    std::cout << "Input number >= 2: ";  
    std::cin >> input;  
} while (input < 2);  
  
... // do something with input
```

Example – do Loop

input:

```
int input;  
  
// Accept input only if >= 2  
do {  
    std::cout << "Input number >= 2: ";  
    std::cin >> input;  
} while (input < 2);  
  
... // do something with input
```

Example – do Loop

input:

```
int input;

// Accept input only if >= 2
do {
    std::cout << "Input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

Example – do Loop

input: 0

```
int input;

// Accept input if >= 2
do {
    std::cout << "input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

Input:

0

Example – do Loop

input: 0

```
int input;

// Accept input only if >= 2
do {
    std::cout << "Input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

0 < 2

true

Example – do Loop

input: 0

```
int input;

// Accept input only if >= 2
do {
    std::cout << "Input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

Example – do Loop

input: 5

```
int input;

// Accept input if >= 2
do {
    std::cout << "input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

Input:

5

Example – do Loop

input: 5

```
int input;

// Accept input only if >= 2
do {
    std::cout << "Input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

5 < 2

false

Example – do Loop

input: 5

```
int input;

// Accept input only if >= 2
do {
    std::cout << "Input number >= 2: ";
    std::cin >> input;
} while (input < 2);

... // do something with input
```

Why do and not while?

- Need input in **condition**.

```
do {  
    std::cout << "Input number >= 2: ";  
    std::cin >> input;  
} while (input < 2);
```

Why do and not while?

- Need `input` in **condition**.
- But: `input` **receives value in loop-body**
- Thus: **condition** must be evaluated **afterwards**

```
do {  
    std::cout << "Input number >= 2: ";  
    std::cin >> input;  
} while (input < 2);
```