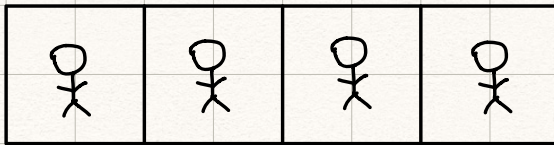


佇列 queue



先進先出 (排隊)

queue 偏向實際生活, 軟體中 stack 會較多

程式中需定義

變數: MaxSize · ^{deQueue用}Start · ^{enQueue用}End · Data
(=0 or -1) (=0 or -1)

函式: Dequeue, Enqueue

```
* include <iostream>
using namespace std;
```

```
* define Max 10
```

```
class Queue
{
public:
```



```
int Start = -1, End = -1;
```

```
void enQueue ( );
```

```
void deQueue ( );
```

```
}
```

```
void Queue :: enQueue ( )
```

```
{
```

```
if ( End >= Max - 1 )
```

```
{
```

```
    cout << "FULL" << endl;
```

```
    return;
```

```
}
```

```
End ++;
```

```
cout << "Please input an int data" ;
```

```
cin >> Data[End];
```

```
}
```

```
void Queue :: deQueue ( )
```

```
{
```

```
if ( Start == End )
```

```
{
```

```
    cout << "Empty" << endl;
```

```
    return;
```

```
}
```



```
    Start ++ ;  
    cout << " deQueue Data : " << Data[Start];  
}
```

```
int main ( )
```

```
{
```

```
    Queue Q1 ;
```

```
    for (int i = 0 ; i < 11 ; i++)
```

```
        Q1.enQueue ( ) ;
```

```
    cout << endl ;
```

```
    for (int i = 0 ; i < 11 ; i++)
```

```
        Q1.deQueue ( ) ;
```

```
    system ("PAUSE")
```

```
    return ;
```

```
}
```