



# Basic Concept of correctness proof



```
{true}
begin
read(a);read(b);
x := a+b;
write(x);
end
{output = input1 + input2}
```

The condition {true} is called the  
**PRECONDITION**

The condition  
{output = input1 + input2}  
is called the **POST CONDITION**

**TECHNIQUE:** If postcondition is true,  
can we deduce that the precondition  
is also true?