

Provide the output of the following syntactically correct C++ program.

```
#include <iostream>
```

```
void madness(int& a, int& b) {  
    if (b > 10)  
    {  
        auto a{b + 6};  
        b = a;  
    }  
    std::cout << a << " " << b << std::endl;  
}
```

```
void into(int x, int& y) {  
    x += 10;  
    y = x;  
    std::cout << x << " " << y << std::endl;  
    madness(x, y);  
    ++x;  
}
```

```
int descend(int& a, int b) {  
    into(a, b);  
    std::cout << a << " " << b << std::endl;  
    return b;  
}
```

```
int main() {  
    int x{11}, y{137}, z{401};  
    x = descend(y, z);  
    std::cout << x << std::endl;  
    std::cout << y << " " << z << std::endl;  
    return 0;  
}
```

Output:

```
147 147  
147 153  
137 153  
153  
137 401
```