

```

#include <stdio.h>
int main()
{
    int a=1;
    int b=1;
}

    int b=2;
}

    int a=3;
//    cout << a << b;
printf("The value of a in B3 = %d\n", a);
printf("The value of b in B3 = %d\n", b);
{
}

    int b=4;
//    cout << a << b;
printf("The value of a in B4 = %d\n", a);
printf("The value of b in B4 = %d\n", b);
{
//    cout << a << b;
printf("The value of a in B2 = %d\n", a);
printf("The value of b in B2 = %d\n", b);
{
//    printf("Hello World");
//    cout << a << b;
printf("The value of a in B1 = %d\n", a);
printf("The value of b in B1 = %d\n", b);
return 0;
}
}

```

The output

```

The value of a in B3 = 3
The value of b in B3 = 2
The value of a in B4 = 1
The value of b in B4 = 4
The value of a in B2 = 1
The value of b in B2 = 2
The value of a in B1 = 1
The value of b in B1 = 1
...Program finished with exit code 0
Press ENTER to exit console.

```

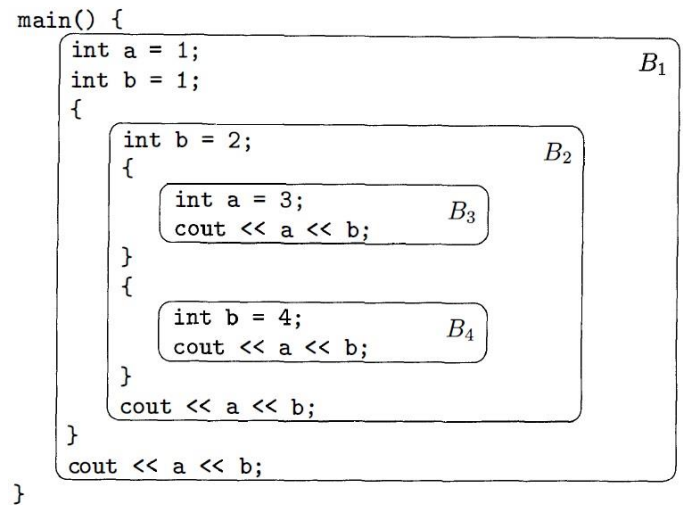


Figure 1.10: Blocks in a C++ program

The output

```

The value of a in B3 = 3
The value of b in B3 = 2
The value of a in B4 = 1
The value of b in B4 = 4
The value of a in B2 = 1
The value of b in B2 = 2
The value of a in B1 = 1
The value of b in B1 = 1
...Program finished with exit code 0
Press ENTER to exit console.

```