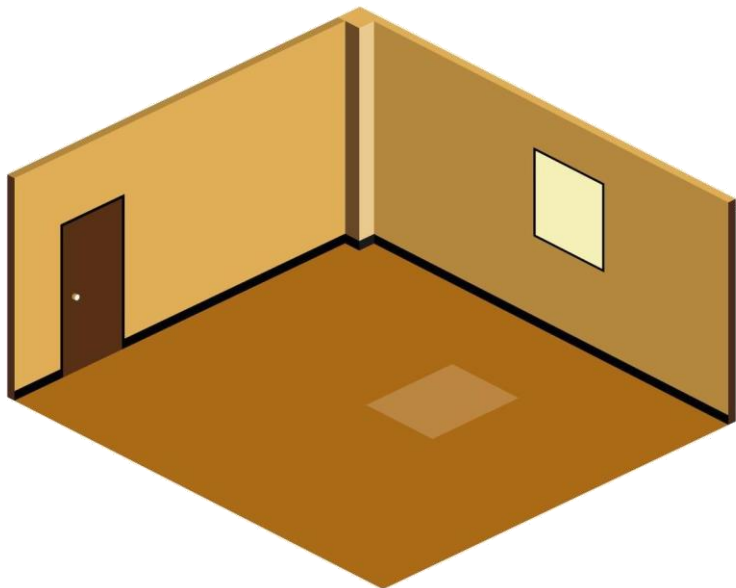


資料型別轉換：例

ASSIGNMENT

- ▶ 下頁程式計算需多少捲的裝潢壁紙才夠貼滿整個新房間
 - ▶ 壁紙捲成筒狀，每捲展開寬度21吋、長33呎
 - ▶ 使用者由鍵盤輸入房間的高度、長度與寬度，均以吋為單位
 - ▶ 房間四周均為牆面，需貼滿壁紙(為簡化計算，在此不考慮窗戶或門所佔空間)
 - ▶ 最少需多少捲壁紙才夠？



```
//Ex2_05.cpp
#include <iostream>
```

```
using namespace std;
```

```
int main()
{
```

```
    double height, width, length, perimeter;
```

```
    const double rollwidth = 21.0;    // Standard roll width
    const double rollLength = 33*12;
```

```
    int strips_per_roll = 0;    // Number of strips in a roll
    int strips_reqd = 0;    // Number of strips needed
    int nrolls = 0;    // Total number of rolls
```

```
    cout << "\nEnter the height of the room in inches: ";
    cin >> height;
```

```
    cout << "\nNow enter the length and width in inches: ";
    cin >> length >> width;
```

```
    strips_per_roll = rollLength / height;
    perimeter = 2.0*(length + width);
    strips_reqd = perimeter / rollwidth;
    nrolls = strips_reqd / strips_per_roll;
```

```
    cout << "You need " << nrolls << " rolls of wallpaper.\n";
    return 0;
```

```
}
```

