

```
// ProceduralTerrain
```

```
for (int x = 0; x < x_segments; x++) {  
    for (int z = 0; z < z_segments; z++) {  
        float height00 = GetHeight(x + 0f, z + 0f, x_segments, z_segments);  
        float height01 = GetHeight(x + 0f, z + 1f, x_segments, z_segments);  
        float height10 = GetHeight(x + 1f, z + 0f, x_segments, z_segments);  
        float height11 = GetHeight(x + 1f, z + 1f, x_segments, z_segments);  
  
        int x0 = x * CellSize;  
        int z0 = z * CellSize;  
        int x1 = (x + 1) * CellSize;  
        int z1 = (z + 1) * CellSize;  
  
        var vertex00 = new Vector3(  
            (float) x0, height00 * (float) TerrainHeight, (float) z0  
        );  
        var vertex01 = new Vector3(  
            (float) x0, height01 * (float) TerrainHeight, (float) z1  
        );  
        var vertex10 = new Vector3(  
            (float) x1, height10 * (float) TerrainHeight, (float) z0  
        );  
        var vertex11 = new Vector3(  
            (float) x1, height11 * (float) TerrainHeight, (float) z1  
        );  
    }  
}
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for (int x = 0; x < x_segments; x++) {  
    for (int z = 0; z < z_segments; z++) {
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The loops we created in the first commit

```
        float height00 = GetHeight(x + 0f, z + 0f, x_segments, z_segments);  
        float height01 = GetHeight(x + 0f, z + 1f, x_segments, z_segments);  
        float height10 = GetHeight(x + 1f, z + 0f, x_segments, z_segments);  
        float height11 = GetHeight(x + 1f, z + 1f, x_segments, z_segments);
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```
        int x0 = x * CellSize;  
        int z0 = z * CellSize;  
        int x1 = (x + 1) * CellSize;  
        int z1 = (z + 1) * CellSize;
```

```
        var vertex00 = new Vector3(  
            (float) x0, height00 * (float) TerrainHeight, (float) z0  
        );
```

```
        var vertex01 = new Vector3(  
            (float) x0, height01 * (float) TerrainHeight, (float) z1  
        );
```

```
        var vertex10 = new Vector3(  
            (float) x1, height10 * (float) TerrainHeight, (float) z0  
        );
```

```
        var vertex11 = new Vector3(  
            (float) x1, height11 * (float) TerrainHeight, (float) z1  
        );
```

```
    }
```

```
}
```