

// ProceduralTerrain

```
float height11 = 0f;
```

```
float amplitude = 1f;
```

```
float frequency = 1f;
```

```
for (int i = Octaves; i > 0; i--) {
```

```
    float octave_x0 = x / Scale * frequency;
```

```
    float octave_z0 = z / Scale * frequency;
```

```
    float octave_x1 = (x + 1f) / Scale * frequency;
```

```
    float octave_z1 = (z + 1f) / Scale * frequency;
```

```
    height00 += Mathf.PerlinNoise(octave_x0, octave_z0) * amplitude;
```

```
    height01 += Mathf.PerlinNoise(octave_x0, octave_z1) * amplitude;
```

```
    height10 += Mathf.PerlinNoise(octave_x1, octave_z0) * amplitude;
```

```
    height11 += Mathf.PerlinNoise(octave_x1, octave_z1) * amplitude;
```

```
    amplitude *= Persistence;
```

```
    frequency *= Lacunarity;
```

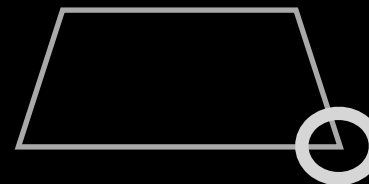
```
}
```

```
int x0 = x * CellSize;
```

We follow the same pattern as before

Right(x = 1)

Near(z = 0)



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Right(x = 1)

Far(z = 1)

