Option 7 Area Shaping and Clearing

```
Choose (+h = help +i = items eg 3h):

1) Clear field (inc trees)

2) Clear a rectangle (+ u/d opt)

3) Clear single wall up/down

4) Clear rectangular wall section

5) Clear hollow structure up/down

6) Clear solid structure up/down

7) Dig a trench

8) Carve mountain side

9) Place a floor or ceiling

10) Direct control of movement

Back = 'q' or number + Enter: _
```

Option 7.1 Clear field (inc trees)

This function removes all blocks above ground level in the specified area.

Optional dirt can be selected to place on the surface, otherwise blocks are exposed and left .

The function is also used as part of the farm preparation in *Option 03 Farming*

```
Clear field

| | | | | | Remove trees and flowers
| | | | | | Fill holes
| | | | | Remove blocks > ground
| | | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | | |
| Optional use dirt as surface

Enter to continue _
```

```
Width of the area (1–64) 8
Length of the area (1–64) 8
Dirt on the surface (y/n) y_
```



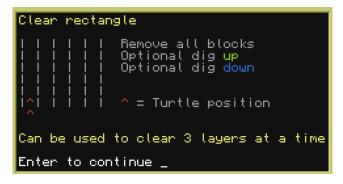


Option 7.2 Clear a rectangle (+ u/d opt)

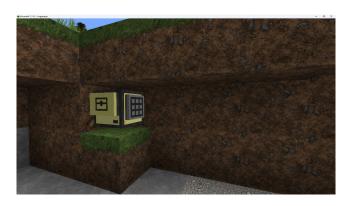
This function digs out a rectangle of blocks with the option of removing the blocks above and / or below at the same time.

The turtle can be positioned within the area of the rectangle, or 1 block away

The screenshots below show it placed within the boundaries



```
Rectangle width (1–256) 6
Rectangle length (1–256) 6
Remove blocks above? y
Remove blocks below? y
Am I outside clearing zone (y/n)? n_
```





Option 7.3 Clear single wall



Starting positions screenshot:

Any of the positions shown here and reflected in the help screen above can be used.

The combination of menus determining direction of travel and starting position are used to move the turtle into the correct start, which is within the wall structure.

Wall dimensions

Going up or going down?

Final positioning if going down (top to bottom)

Final positioning if going up (bottom to top)

In progress starting at the bottom.



Length of wall (1–256) 6 Height of wall (1–50) 4_

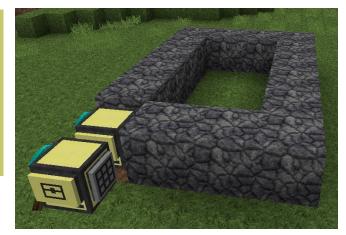
```
Which direction?
1) Bottom -> Top
2) Top -> Bottom
Type number + Enter
```

```
Exact position?
1) On top of clearing zone
2) In front of clearing zone
3) Inside clearing zone
4) Above AND outside
Type number + Enter _
```

Am I outside clearing zone (y/n)? _



Option 7.4 Clear rectangular wall section



Turtle positions screenshot:

If placed outside the wall, then the turtle moves into the wall and continues from there

```
Perimeter width (1–256) 4
Perimeter length (1–256) 6
Remove blocks above? (y/n) n
Remove blocks below? (y/n) n
Am I outside clearing zone (y/n)? y_
```

Option 7.5 Clear hollow structure up/down

Turtle positions screenshot:

The possible starting positions are the same as a single wall as shown in *Option 7.3 Clear a single wall*

The responses to direction of movement are used to move into the correct starting position.

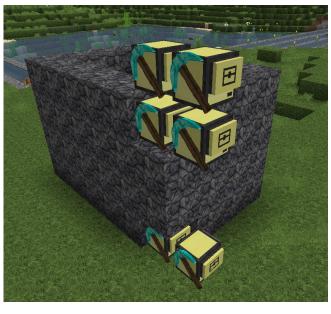
Get structure dimensins

Remove floor / ceiling

Going up or going down?

Final positioning if going down (top to bottom)

Final positioning if going up (bottom to top)



```
Hollow object width (1–256) 4
Hollow object length (1–256) 6
Depth/Height (1–256) 4
Remove ceiling? (y/n) n
Remove floor? (y/n) n
```

```
Which direction?
1) Bottom -> Top
2) Top -> Bottom
Type number (q to quit) + Enter _
```

```
Exact position?
1) On top of clearing zone
2) Outside clearing zone
3) Inside clearing zone
4) Above AND outside
Type number + Enter _
```

Am I outside clearing zone (y/n)? _

Option 7.6 Clear solid structure up/down

For turtle positions see screenshot from Option 7.5 Clear hollow structure up / down

Interface is identical except:

Questions regarding floor / ceiling removal are NOT displayed

Option 7.7 Dig a trench





Place turtle at start of trench Provide depth and length.

Depth of the trench (1–64) 2 Trench length? 0 = continuous 12

The depth chosen follows the landscape

These screenshots show a depth of 2 and length 12



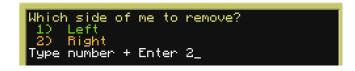


Option 7.8 Carve mountain side





This does a similar job to carving a solid structure, but is quicker and takes fewer moves as the contour of the landscape is taken into account.



Width of area to remove? 4 Length of area to remove? 10



Option 7.9 Place a floor or ceiling

```
Laying what?

1) Replacing current floor

2) New floor over existing

3) Replacing current ceiling

4) New ceiling under existing

Type number (q to quit) + Enter _
```

```
Enter 0 for on-site placement
If in deep water or above reach
Enter approx depth/height 0
Width of floor (1–64) 8
Length of floor (1–64) 8_
```



Option 7.10 Direct control of movement

This is the same as

Option 8.3 Create Enclosed Area

Instructions repeated here for convenience

On the surface, use option 1 In a cave you might want to use 2, so you get a roof over your head!

Command driven interface

```
Commands:

direction + number eg f2 = forward 2

direction without number = 1

f = forward b = backward

l = left r = right

u = up d = down

q = quit

command
```

```
Place me anywhere!
Menu or direct command interface.

Commands:
direction + number eg f2 = forward 2

f = forward b = backward
l = left r = right
u = up d = down

Enter to continue
```

```
Choose your path option
1) Simple path
2) Covered 2 block high path
Type number + Enter
```

Menu driven interface

```
Choose next step
1) Forward 1 block
2) Forward # blocks
3) Back 1 block
4) Back # blocks
5) Turn Right
6) Turn Left
7) Up 1 block
8) Down 1 block
9) Quit
Type number + Enter
```

An example using the command driven interface:



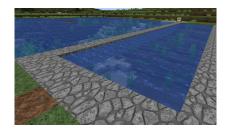
Starting position "Move forward 6 blocks, placing down"





After command "f6" Next "r" then forward 19





Completed right-angle path