

UTAustinX: UT.6.01x Embedded Systems - Shape the World

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This function tests to see if two strings are equal, explain how it works.

```
//*******strcmp*********
// Compares two strings
// Inputs: two null-terminated strings
// outputs: 1 if equal, 0 if different
int strcmp(unsigned char first[], const unsigned char second[]){
unsigned long i = 0;
 while(1){
 if((first[i]==0)&&(second[i]==0))return 1; // equal
  if(first[i]==0)
                        return 0; // different
  if(second[i]==0)
                         return 0; // different
 if(first[i] != second[i])
                              return 0; // different
 i++;
 }
}
```

Programs 11.6 and 11.7 both output a decimal number. How are they the same? How are they different?

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