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1.

```
C as1.c> main()
1  #include <stdio.h>
2
3  int main()
4  {
5      int num, remainder, reversed, init_num;
6      printf("Please enter a 2-digit number: ");
7      scanf("%d", &init_num);
8
9      remainder = init_num % 10;
10     reversed = remainder * 10 + (init_num/10);
11
12     printf("Reverse: %d", reversed);
13
14
15     return;
16 }
```

OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell  
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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language\" ; if (\$?) { gcc as1.c -o as1 } ; if (\$?) { .\as1 }

as1.c: In function 'main':  
as1.c:15:5: warning: 'return' with no value, in function returning non-void  
15 | return;  
 | ^~~~~~  
as1.c:3:5: note: declared here  
3 | int main()  
 | ^~~~~~

Please enter a 2-digit number: 85  
Reverse: 58  
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>

2.

```
C as2.c> main()
1  #include <stdio.h>
2
3  int main()
4  {
5      int num, remainder, reversed, init_num;
6      printf("Please enter a 3-digit number: ");
7      scanf("%d", &init_num);
8
9      remainder = init_num % 10;
10     reversed = remainder * 100;
11     remainder = ((init_num/10) % 10) * 10;
12     reversed = reversed + remainder;
13     remainder = (init_num/100);
14     reversed = reversed + remainder;
15
16     printf("Reverse: %d", reversed);
17
18
19     return;
20 }
```

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as2.c: In function 'main':  
as2.c:19:5: warning: 'return' with no value, in function returning non-void  
19 | return;  
 | ^~~~~~  
as2.c:3:5: note: declared here  
3 | int main()  
 | ^~~~~~

Please enter a 3-digit number: 345  
Reverse: 543  
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>

3.

a) 1

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int i = 3, j = 4, k = 5;
6      printf("%d", i < j || ++j < k);
7      return;
8  }
```

OUTPUT   **TERMINAL**   DEBUG CONSOLE

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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language\" ; gcc as3a.c -o as3a ; if (\$?) { gcc as3a.c -o as3a } ; if (\$?) { .\as3a }

as3a.c: In function 'main':  
as3a.c:7:5: warning: 'return' with no value, in function returning non-void  
7 | return;  
 | ~~~~~  
as3a.c:3:5: note: declared here  
3 | int main()  
 | ~~~~~  
1  
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>

b) 0

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int i = 7, j = 8, k = 9;
6      printf("%d", i - 7 && j++ < k);
7      return;
8  }
```

OUTPUT   **TERMINAL**   DEBUG CONSOLE

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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language\" ; gcc as3b.c -o as3b ; if (\$?) { gcc as3b.c -o as3b } ; if (\$?) { .\as3b }

as3b.c: In function 'main':  
as3b.c:7:5: warning: 'return' with no value, in function returning non-void  
7 | return;  
 | ~~~~~  
as3b.c:3:5: note: declared here  
3 | int main()  
 | ~~~~~  
0  
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\C Language>

c) 1

8 8 9

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int i = 7, j = 8, k = 9;
6      printf("%d\n", (i = j) || (j == k));
7      printf("%d %d %d", i, j, k);
8      return;
9  }
```

OUTPUT TERMINAL DEBUG CONSOLE

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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\Language\" ; if (\$?) { gcc as3c.c -o as3c } ; if (\$?) { .\as3c }

as3c.c: In function 'main':  
as3c.c:8:5: warning: 'return' with no value, in function returning non-void  
8 | return;  
 | ~~~~~  
as3c.c:3:5: note: declared here  
3 | int main()  
 | ~~~~~  
1  
8 8 9  
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\Language>

d) 1

2 1 1

```
1  #include <stdio.h>
2
3  int main()
4  {
5      int i, j, k;
6      i = j = k = 1;
7      printf("%d \n", ++i || ++j && ++k);
8      printf("%d %d %d", i, j, k);
9      return;
10 }
```

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PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\Language> cd "c:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\Language\" ; if (\$?) { gcc as3d.c -o as3d } ; if (\$?) { .\as3d }

as3d.c: In function 'main':  
as3d.c:9:5: warning: 'return' with no value, in function returning non-void  
9 | return;  
 | ~~~~~  
as3d.c:3:5: note: declared here  
3 | int main()  
 | ~~~~~  
1  
2 1 1  
PS C:\Users\admin\Desktop\UP Class 2nd sem\CMSC 21\Language>