

C Formatted Input Questions

Sayak Haldar

IEST, Shibpur

1) What is the output of this C code?

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      int n;
5.      scanf("%d", n);
6.      printf("%d\n", n);
7.      return 0;
8.  }
```

- a) Compilation error
- b) undefined behaviour
- c) whatever user types
- d) depends on the standard

2) What is the output of this C code?

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      char *n;
5.      scanf("%s", n);
6.      return 0;
7.  }
```

- a) Compilation error
- b) undefined behaviour
- c) Nothing
- d) none of the mentioned

3) What is the output of this C code?

```
1.  #include <stdio.h>
```

```

2.  int main()
3.  {
4.      char n[] = "hello\nworld!";
5.      char s[13];
6.      sscanf(n, "%s", s);
7.      printf("%s\n", s);
8.      return 0;
9.  }

```

- a) hellonworld!
- b) hello
world!
- c) hello
- d) hello world!

4) What is the output of this C code?

```

1.  #include <stdio.h>
2.  int main()
3.  {
4.      short int i;
5.      scanf("%hd", &i);
6.      printf("%hd", i);
7.      return 0;
8.  }

```

- a) Compilation error
- b) Undefined behaviour
- c) Whatever user types
- d) None of the mentioned

5) What is the output of this C code?

```

1.  #include <stdio.h>

```

```
2.  int main()
3.  {
4.      short int i;
5.      scanf("%*d", &i);
6.      printf("%hd", i);
7.      return 0;
8.  }
```

- a) Compilation error
- b) Somegarbage value
- c) Whatever user types
- d) Depends on the standard

6) What is the output of this C code?

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      short int i;
5.      scanf("%*hd", &i);
6.      printf("%hd", i);
7.      return 0;
8.  }
```

- a) Compilation error
- b) Somegarbage value
- c) Whatever user types
- d) Depends on the standard

7) What is the output of this C code? Consider input as a large number whose value exceeds the maximum range of short int

```
1.  #include <stdio.h>
```

```
2.  int main()
3.  {
4.      short int i;
5.      scanf("%hd", &i);
6.      printf("%hd", i);
7.      return 0;
8.  }
```

- a) Compilation error
- b) Somegarbage value
- c) Whatever user types
- d) Depends on the standard

8) What is the output of this C code?

```
1.  #include <stdio.h>
2.  int main()
3.  {
4.      short int i;
5.      scanf("%h*d", &i);
6.      printf("%hd", i);
7.      return 0;
8.  }
```

- a) Compilation error
- b) Undefined behaviour
- c) Somegarbage value
- d) Depends on the standard.

9) Which of the following is NOT a delimiter for an input in scanf?

- a) Enter
- b) Space
- c) Tab

d) None of the mentioned

10) If the conversion characters of int d, i, o, u and x are preceded by h, it indicates?

- a) A pointer to int
- b) A pointer to short
- c) A pointer to long
- d) A pointer to char

11) Which of the following doesn't require an & for the input in scanf?

- a) char name[10];
- b) int name[10];
- c) float name[10];
- d) All of the mentioned

12) Which of the following is an invalid method for input?

- a) scanf("%d%d%d",&a, &b, &c);
- b) scanf("%d %d %d", &a, &b, &c);
- c) scanf("Three values are %d %d %d",&a,&b,&c);
- d) None of the mentioned.

13) Which of the following represents the function for scanf?

- a) void scanf(char *format, ...)
- b) int scanf(char *format, ...)
- c) char scanf(int format, ...)
- d) char *scanf(char *format, ...)

14) scanf returns as its value

- a) Number of successfully matched and assigned input items
- b) Nothing
- c) Number of characters properly printed
- d) Error

15) What is the output of this C code?

1. #include <stdio.h>
2. void main()
3. {
4. int n;

5. scanf("%d", n);
6. printf("%d", n);
7. return 0;
8. }

- a) Prints the number that was entered
- b) Segmentation fault
- c) Nothing
- d) Varies

16) int sscanf(char *string, char *format, arg1, arg2, ...)

- a) Scans the string according to the format in format and stores the resulting values through arg1, arg2, etc.
- b) The arguments arg1, arg2 etc must be pointers
- c) Both a & b
- d) None of the mentioned

17) The conversion characters d, i, o, u, and x may be preceded by h in scanf to indicate

- a) A pointer to short
- b) A pointer to long
- c) Nothing
- d) Error

18) What is the output of this C code (when 4 and 5 are entered)?

1. #include <stdio.h>
2. int main()
3. {
4. int m, n;
5. printf("enter a number");
6. scanf("%d", &n);
7. scanf("%d", &m);
8. printf("%d\t%d\n", n, m);
9. return 0;
10. }

- a) Error
- b) 4 junkvalue
- c) Junkvalue 5
- d) 4 5

References:

- 1) <http://www.sanfoundry.com/c-interview-questions-answers/>