

The screenshot shows the HackerRank C practice page. The top navigation bar includes links for PRACTICE, CERTIFICATION, COMPETE, JOBS, and LEADERBOARD. The user's profile shows a rank of 114448 and 101.15/200 points. The main content area lists several solved problems, each with a star icon, a 'Solved' button, and a success rate. The problems are:

- "Hello World!" in C (Easy, C (Basic), Max Score: 5, Success Rate: 86.94%)
- Playing With Characters (Easy, C (Basic), Max Score: 5, Success Rate: 83.28%)
- Sum and Difference of Two Numbers (Easy, C (Basic), Max Score: 5, Success Rate: 94.32%)
- Functions in C (Easy, C (Basic), Max Score: 10, Success Rate: 96.04%)
- Pointers in C (Easy, C (Basic), Max Score: 10, Success Rate: 96.32%)
- Conditional Statements in C (Easy, C (Basic), Max Score: 10, Success Rate: 97.13%)
- For Loop in C (Easy, C (Basic), Max Score: 10, Success Rate: 93.34%)
- Sum of Digits of a Five Digit Number (Easy, C (Basic), Max Score: 15, Success Rate: 98.68%)
- 1D Arrays in C (Medium, C (Basic), Max Score: 10, Success Rate: 96.74%)
- Array Reversal (Medium, C (Basic), Max Score: 20, Success Rate: 97.77%)

On the right side, there are filters for STATUS (Solved, Unsolved), SKILLS (C (Basic), C (Intermediate)), DIFFICULTY (Easy, Medium, Hard), and SUBDOMAINS (Introduction, Conditionals and Loops, Arrays and Strings, Functions, Structs and Enums).

Hello world in C:

```
#include <stdio.h>

int main()
{
    char str[100];
    scanf("%[^\\n]%*c",str);
    printf("Hello, World!\\n");
    printf("%s",str);
    return 0;
}
```

Playing with characters:

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main()
{
    char ch, *s[50], *sen[100];
    scanf("%c %s %[^\\n]%*c",&ch, &s, &sen);
    scanf("\\n");
}
```

```
printf("%c\n%s\n%s",ch, s, sen);
return 0;
}
```

Sum and difference of two numbers:

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main()
{
    int a, b;
    float c,d;
    scanf("%d\t %d\n %f\t %f",&a, &b, &c, &d);
    printf("%d %d\n%.1f %.1f",a+b, a-b, c+d, c-d);
    return 0;
}
```

Functions in C:

```
#include <stdio.h>
int max_of_four(int x, int y, int z, int w)
{
    int max=0;
    int arr1[4] = {x, y, z, w};
    for(int i=0;i<4;i++)
    {
        if (arr1[i] > max) {
            max = arr1[i];
        }
    }
    return max;
}
int main() {
    int a, b, c, d;
    scanf("%d %d %d %d", &a, &b, &c, &d);
    int ans = max_of_four(a, b, c, d);
    printf("%d", ans);

    return 0;
}
```

Pointers in C:

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

```

void update(int *a,int *b)
{
    int t;
    if(*a<*b)
    {
        t=*a;
        *a=*b;
        *b=t;
    }
}
int main() {
    int a, b;
    int *pa = &a, *pb = &b;
    scanf("%d %d", &a, &b);
    update(pa, pb);
    printf("%d\n%d", a+b, a-b);
    return 0;
}

```

Conditional statements in C:

```

#include <stdio.h>
char* engword(int x)
{
    char* output;
    if (x<=9)
    {
        if (x==1) output="one" ;
        if (x==2) output="two" ;
        if (x==3) output="three" ;
        if (x==4) output="four" ;
        if (x==5) output="five" ;
        if (x==6) output="six" ;
        if (x==7) output="seven" ;
        if (x==8) output="eight" ;
        if (x==9) output="nine" ;
    }
    else {
        output = "Greater than 9";
    }
    return output;
}

int main()
{
    int num;

```

```
scanf("%d",&num);  
printf("%s",engword(num));  
}
```

For loop in C:

```
#include <stdio.h>  
#include <string.h>  
#include <math.h>  
#include <stdlib.h>  
  
char* engword(int x)  
{  
    char* output;  
    if (x<=9)  
    {  
        if (x==1) output="one";  
        if (x==2) output="two";  
        if (x==3) output="three";  
        if (x==4) output="four";  
        if (x==5) output="five";  
        if (x==6) output="six";  
        if (x==7) output="seven";  
        if (x==8) output="eight";  
        if (x==9) output="nine";  
    }  
    else {  
        if (x%2==0) output="even";  
        if (x%2!=0) output="odd";  
    }  
    return output;  
}  
  
int main()  
{  
    int a, b;  
    scanf("%d\n%d", &a, &b);  
    for(int i=a;i<=b;i++)  
    {  
        printf(engword(i));  
        printf("\n");  
    }  
    return 0;  
}
```

Sum of digits of a five digit number:

```
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    int n;
    int rem,sum;
    scanf("%d", &n);
    while((n>=10))
    {
        rem=n%10;
        sum+=rem;
        n=n/10;
    }
    printf("%d", (sum+n));
    return 0;
}
```

1D array in C:

```
#include<stdio.h>
int sumofarr(int a[100],int n)
{
    int i,sum=0;
    for(i=0; i<n; i++)
    {
        sum+=a[i];
    }
    return sum;
}
int main()
{
    int a[1000],i,n,sum;
    scanf("%d", &n);
    for(i=0; i<n; i++)
    {
        scanf("%d",&a[i]);
    }
    sum=sumofarr(a,n);
    printf("%d",sum);
}
```

Array reversal:

```
#include<stdio.h>
int main()
{
    int a[1000],b[1000],c,d,n;
    scanf("%d",&n);
    for(c=0;c<n;c++)
    {
        scanf("%d",&a[c]);
    }
    for(c=n-1,d=0;c>=0;c--,d++)
    {
        b[d]=a[c];
    }
    for(c=0;c<n;c++)
    {
        a[c]=b[c];
    }
    for(c=0;c<n;c++)
    {
        printf("%d ",a[c]);
    }
    return 0;
}
```