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Ans 2

```
#include <stdio.h>
#include <string.h>
int main ()
{
    int cpu[20], at[20], n, i, j, temp, st[10], ft[10], wt
    [10], ta[10];
    int totwt = 0, totta = 0;
    float awt, ata;
    char pn[10][10], t[10];
```

```
    printf("Enter the number of process:");
    scanf("%d", &n);
    for (i = 0; i < n; i++)
    {
```

```
        printf("Enter process name, arrival time & cpu
        time:");
        scanf("%s %d %d", pn[i], &at[i], &cpu[i]);
    }
```

```
    for (i = 0; i < n; i++)
    {
        for (j = 0; j < n; j++)
```

```
            if (cpu[i] < cpu[j])
            {
```

```

temp = at[i];
at[i] = at[j];
at[j] = temp;
temp = cpu[i];
cpu[i] = cpu[j];
cpu[j] = temp;
strcpy(t, pn[i]);
strcpy(pn[i], pn[j]);
strcpy(pn[j], t);
}
}

```

```

for (i = 0; i < n; i++)

```

```

    if (i == 0)
        st[i] = at[i];
    else

```

```

        st[i] = jt[i] - at[i-1];
        wt[i] = st[i] - at[i];
        jt[i] = st[i] + cpu[i];
        ta[i] = jt[i] - at[i];
        totwt += wt[i];
        totta += ta[i];
    }

```

```

    awt = (float) totwt / n;

```

```

    ata = (float) totta / n;

```

```

    printf("\n pname\t arrival time\t t cpu time\t p.to

```

```
    |t waiting time |t turnaround time");  
for (i = 0; i < n; i++)  
    printf("%d %d %d %d %d",  
           pn[i], at[i], cpu[i], wt[i], ta[i]);  
printf("\n Average waiting time is : %.2f", a_wt);  
printf("\n Average turnaround time is : %.2f", a_ta);  
  
return 0;  
}
```

Bank