

From	To	Formulae
<b>Formulae Conversion Factors</b> 9/5 = 1.8    9/4 = 2.25    10/8 = 1.25		
Celsius	Fahrenheit	$F = C \times 1.8 + 32$
	Kelvin	$K = C + 273.15$
	Rankine	$Ra = C \times 1.8 + 32 + 459.67$
	Réaumur	$Re = C \times 0.8$
Fahrenheit	Celsius	$C = (F - 32) / 1.8$
	Kelvin	$K = (F + 459.67) / 1.8$
	Rankine	$Ra = F + 459.67$
	Réaumur	$Re = (F - 32) / 2.25$
Kelvin	Celsius	$C = K - 273.15$
	Fahrenheit	$F = K \times 1.8 - 459.67$
	Rankine	$Ra = K \times 1.8$
	Réaumur	$R = (K - 273.15) \times 0.8$
Rankine	Celsius	$C = (Ra - 32 - 459.67) / 1.8$
	Fahrenheit	$F = Ra - 459.67$
	Kelvin	$K = Ra / 1.8$
	Réaumur	$Re = (Ra - 32 - 459.67) / 2.25$
Réaumur	Celsius	$C = Re \times 1.25$
	Fahrenheit	$F = Re \times 2.25 + 32$
	Kelvin	$K = Re \times 1.25 + 273.15$
	Rankine	$Ra = Re \times 2.25 + 32 + 459.67$

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1. #include <windows.h> //use for gotoxy
2. #include <conio.h> //header file of getch
3. #include <stdio.h> //use for input/output
4. #include <stdlib.h> // for standard libraries (use in conditional statements(if-else and etc...)) system("cls")
5. #include <time.h> //use for delay
6. #include <string.h> //use for strcmp
7.
8.
9. //GLOBAL function---> any method in this program can use this functions
10. void delay(ms){
11.     clock_t timeDelay = ms + clock(); //Step up the difference from clock delay
12.     while (timeDelay > clock()); //stop when the clock is higher than time delay
13. }
14.
15.
16. void gotoxy(short x,short y)
17. {
18.     COORD pos={x,y};
19.     SetConsoleCursorPosition(GetStdHandle(STD_OUTPUT_HANDLE),pos);
20. }
21.
22. //GLOBAL VARIABLES---> these variables can be used by any methods
23.     int z,r,from,to;
24.     char username[10],password[10];
25.     float C,F,K,Ra,Re;
26.
27.
28. //MAIN METHOD--> this will call the initial method and goes on
29. int main(){
30.
31.     //variables are in the GLOBAL VARIABLE
32.     system("COLOR 0B"); //change the background and font of the system
33.     printf("!PASSWORD LENGTH IS 10 CHARACTERS ONLY\n");
34.
35.     while(z<3){
36.         printf("\nE N T E R   U S E R   N A M E: "), scanf("%s", &username);
37.         printf("E N T E R   P A S S W O R D: ");
38.         for(r=0;r<10;r++){ //10 max char of pass
39.             password[r]=getch(); //acts as scanf for the password to store in the array [password]
40.             printf("*");
41.         }
42.         password[r]='\0';
43.
44.
45.
46.         //getch function prompts a user to press a character and that character isn't printed on screen.
47.
48.         //system_username=yestouno-----> system_password=papasakami

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49.         if(strcmp(username,"yestouno")==0 && strcmp(password,"papasakami")==0){
50.             printf("\n\nUSERNAME AND PASSWORD ARE CORRECT");
51.             delay(2000),system("cls");
52.             conversion_table(); //conversion_table calling
53.         }
54.
55.
56.     else{
57.         z++;
58.         printf("\n\nEither username or password is incorrect\n");
59.         delay(500), system("cls");
60.         printf("You have %d trials left\n", 3-z);
61.     }
62.     if(z==3){
63.         printf("You've reached the maximum number of attempts.\n");
64.         exit(EXIT_SUCCESS);
65.     }
66. }
67. }
68. }
69.
70.
71. /*=====*/
72. //conversion_table method
73. int conversion_table()
74. {
75.
76.     //VERTICALS OUTER
77.     for(r=1;r<=33;r++){
78.         delay(5);
79.         gotoxy(10,r),printf("*");
80.         gotoxy(75,r),printf("*");
81.     }
82.     //VERTICALS INNER
83.     for(r=1;r<=30;r++){
84.         delay(5);
85.         gotoxy(25,r),printf("*");
86.         gotoxy(40,r),printf("*");
87.     }
88.
89.
90.     //HORIZONTALS
91.     for(r=1;r<=65;r++){
92.         delay(5);
93.         gotoxy(10+r,1),printf("*");
94.         gotoxy(10+r,3),printf("*");
95.         gotoxy(10+r,5),printf("*");
96.         gotoxy(10+r,10),printf("*");

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97.     gotoxy(10+r,15),printf("*");
98.     gotoxy(10+r,20),printf("*");
99.     gotoxy(10+r,25),printf("*");
100.         gotoxy(10+r,30),printf("*");
101.         gotoxy(10+r,33),printf("*");
102.
103.     }
104.
105.     //HEADERS
106.     delay(5),gotoxy(25,2),printf("WELCOME TEMPERATURE CONVERTER");
107.     delay(5),gotoxy(15,4),printf("FROM");
108.     delay(5),gotoxy(32,4),printf("TO");
109.     delay(5),gotoxy(53,4),printf("FORMULAE");
110.
111.     //FROM CELSIUS
112.     delay(5),gotoxy(14,6),printf("Celsius");
113.     delay(5),gotoxy(28,6),printf("Fahrenheit");
114.     delay(5),gotoxy(45,6),printf("F = [C*1.8] + 32");
115.     delay(5),gotoxy(28,7),printf("Kelvin");
116.     delay(5),gotoxy(45,7),printf("K = C + 273.15");
117.     delay(5),gotoxy(28,8),printf("Rankine");
118.     delay(5),gotoxy(45,8),printf("Ra = [C*1.8]+ 32 + 459.67");
119.     delay(5),gotoxy(28,9),printf("Reaumur");
120.     delay(5),gotoxy(45,9),printf("Re = C * 0.8");
121.
122.     //FROM FAHRENHEIT
123.     delay(5),gotoxy(13,11),printf("Fahrenheit");
124.     delay(5),gotoxy(28,11),printf("Celsius");
125.     delay(5),gotoxy(45,11),printf("C = [F-32] / 1.8");
126.     delay(5),gotoxy(28,12),printf("Kelvin");
127.     delay(5),gotoxy(45,12),printf("K = [F+459.67] / 1.8");
128.     delay(5),gotoxy(28,13),printf("Rankine");
129.     delay(5),gotoxy(45,13),printf("Ra = F + 459.67");
130.     delay(5),gotoxy(28,14),printf("Reaumur");
131.     delay(5),gotoxy(45,14),printf("Re = [F-32] / 2.25");
132.
133.     //FROM KELVIN
134.     delay(5),gotoxy(14,16),printf("Kelvin");
135.     delay(5),gotoxy(28,16),printf("Celsius");
136.     delay(5),gotoxy(45,16),printf("C = K - 273.15");
137.     delay(5),gotoxy(28,17),printf("Fahrenheit");
138.     delay(5),gotoxy(45,17),printf("F = [K*1.8] - 459.67");
139.     delay(5),gotoxy(28,18),printf("Rankine");
140.     delay(5),gotoxy(45,18),printf("Ra = K * 1.8");
141.     delay(5),gotoxy(28,19),printf("Reaumur");
142.     delay(5),gotoxy(45,19),printf("Re = [K-273.15] * 0.8");
143.
144.     //FROM RANKINE

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145.         delay(5),gotoxy(14,21),printf("Rankine");
146.         delay(5),gotoxy(28,21),printf("Celsius");
147.         delay(5),gotoxy(45,21),printf("C = [Ra-32-459.67] / 1.8");
148.         delay(5),gotoxy(28,22),printf("Fahrenheit");
149.         delay(5),gotoxy(45,22),printf("F = Ra - 459.67");
150.         delay(5),gotoxy(28,23),printf("Kelvin");
151.         delay(5),gotoxy(45,23),printf("K = Ra / 1.8");
152.         delay(5),gotoxy(28,24),printf("Reaumur");
153.         delay(5),gotoxy(45,24),printf("Re = [Ra-32-459.67] / 2.25");
154.
155.         //FROM REAUMUR
156.         delay(5),gotoxy(14,26),printf("Reaumur");
157.         delay(5),gotoxy(28,26),printf("Celsius");
158.         delay(5),gotoxy(45,26),printf("C = Re * 1.25");
159.         delay(5),gotoxy(28,27),printf("Fahrenheit");
160.         delay(5),gotoxy(45,27),printf("F = [Re*2.25] + 32");
161.         delay(5),gotoxy(28,28),printf("Kelvin");
162.         delay(5),gotoxy(45,28),printf("K = [Re*1.25]+ 273.15");
163.         delay(5),gotoxy(28,29),printf("Rankine");
164.         delay(5),gotoxy(45,29),printf("Ra = [Re*2.25]+ 32 + 459.67");
165.
166.         //FORMULA FACTORS
167.         delay(5),gotoxy(32,31),printf("TEMPERATURE CONVERTER");
168.         delay(5),gotoxy(25,32),printf("9/5 = 1.8    9/4 = 2.25    10/8 = 1.25");
169.
170.         delay(5),gotoxy(30,35),printf("PRESS ANY KEY TO CONTINUE...");
171.
172.         getch();
173.         delay(500),system("cls");
174.         process();
175.
176.     }
177.     /*=====
=====*/
178.     //process method
179.     int process(){
180.
181.         delay(300);
182.         //////////////////////////////////////VERTICALS
183.         for(r=1;r<=18;r++){
184.             gotoxy(10,r),printf("*");
185.             gotoxy(75,r),printf("*");
186.         }
187.
188.         for(r=1;r<=7;r++){
189.             gotoxy(3,r+18),printf("*");
190.             gotoxy(82,r+18),printf("*");
191.         }

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192.
193.          ////////////////////////////////////HORIZONTALS
194.          for(r=1;r<=65;r++){
195.              gotoxy(10+r,1),printf("*"); //1st
196.              gotoxy(10+r,9),printf("*"); //2nd
197.              gotoxy(10+r,11),printf("*"); //3rd
198.              gotoxy(10+r,17),printf("*"); //4th
199.          }
200.
201.          for(r=1;r<=80;r++){
202.              gotoxy(r+2,19),printf("*"); //5th
203.              gotoxy(r+2,26),printf("*"); //6th
204.          }
205.
206.
207.          //CONVERSION STATEMENTS
208.          CONVERSION:
209.              gotoxy(12,2),printf("Choose the digit below of the unit you want to convert:\n");
210.              gotoxy(12,3),printf("\t[1] Celsius\n");
211.              gotoxy(12,4),printf("\t[2] Fahrenheit\n");
212.              gotoxy(12,5),printf("\t[3] Kelvin\n");
213.              gotoxy(12,6),printf("\t[4] Rankine\n");
214.              gotoxy(12,7),printf("\t[5] Reaumur\n");
215.              gotoxy(12,8),printf("\t[6] Exit");
216.              gotoxy(68,2),scanf("%d", &from);
217.
218.              if(from==1){
219.                  //CELSIUS
220.                  gotoxy(12,10),printf("Enter the amount of Celsius: "), scanf("%f", &C);
221.                  gotoxy(12,13),printf("\t[1] Fahrenheit\n");
222.                  gotoxy(12,14),printf("\t[2] Kelvin\n");
223.                  gotoxy(12,15),printf("\t[3] Rankine\n");
224.                  gotoxy(12,16),printf("\t[4] Reaumur\n");
225.                  gotoxy(12,12),printf("Select the digit below of the unit of conversion: "); scanf("%d", &to);
226.                  if(to==1){ //C-F
227.                      F=(C*1.8)+32;
228.                      gotoxy(12,18),printf("%.2f C is equal to %.2f F", C,F);
229.                      goto Celsius_Trivia;
230.                  }
231.                  else if(to==2){ //C-K
232.                      K= C + 273.15;
233.                      gotoxy(12,18),printf("%.2f C is equal to %.2f K", C,K);
234.                      goto Celsius_Trivia;
235.                  }
236.                  else if(to==3){ //C-Ra
237.                      Ra= (C*1.8)+ 32 + 459.67;
238.                      gotoxy(12,18),printf("%.2f C is equal to %.2f Ra", C,Ra);
239.                      goto Celsius_Trivia;

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240.         }
241.         else if(to==4){ //C-Re
242.             Re=C*0.8;
243.             gotoxy(12,18),printf("%.2f C is equal to %.2f Re", C,Re);
244.             goto Celsius_Trivia;
245.         }
246.
247.         else{
248.             gotoxy(12,18),printf("Your choice is not in the ranged of 1-4 ");
249.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
250.             getch();
251.             system("cls");
252.             process();
253.         }
254.
255.         //CELSIUS TRIVIA
256.         Celsius_Trivia:
257.             gotoxy(5,20),printf("DID YOU KNOW? CELSIUS...");
258.             gotoxy(5,21),printf("\tHaving a scale for measuring temperature on which the boiling point of \n");
259.             gotoxy(5,22),printf("water is at 100 degrees and the freezing point of water is at 0 degrees.\n");
260.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
261.             getch();
262.             system("cls");
263.             process();
264.         }
265.         /*=====*/
266.         //FAHRENHEIT
267.         else if (from==2){
268.             gotoxy(12,10),printf("Enter the amount of Fahrenheit: "), scanf("%f", &F);
269.             gotoxy(12,13),printf("\t[1] Celsius\n");
270.             gotoxy(12,14),printf("\t[2] Kelvin\n");
271.             gotoxy(12,15),printf("\t[3] Rankine\n");
272.             gotoxy(12,16),printf("\t[4] Reaumur\n");
273.             gotoxy(12,12),printf("Select the digit below of the unit of conversion: "); scanf("%d", &to);
274.             if(to==1){ //F-C
275.                 C = (F- 32) / 1.8;
276.                 gotoxy(12,18),printf("%.2f F is equal to %.2f C", F,C);
277.                 goto Farenheit_Trivia;
278.             }
279.             else if(to==2){ //F-K
280.                 K = (F+459.67) /1.8;
281.                 gotoxy(12,18),printf("%.2f F is equal to %.2f K", F,K);
282.                 goto Farenheit_Trivia;
283.             }
284.             else if(to==3){ //F-Ra
285.                 Ra = F + 459.67;
286.                 gotoxy(12,18),printf("%.2f F is equal to %.2f Ra", F,Ra);
287.                 goto Farenheit_Trivia;

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288.         }
289.         else if(to==4){ //F-Re
290.             Re = (F-32) / 2.25;
291.             gotoxy(12,18),printf("%.2f F is equal to %.2f Re", F,Re);
292.             goto Fahrenheit_Trivia;
293.         }
294.         else{
295.             gotoxy(12,18),printf("Your choice is not in the ranged of 1-4 ");
296.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
297.             getch();
298.             system("cls");
299.             process();
300.         }
301.         //FAREHNHEIT TRIVIA
302.         Farenheit_Trivia:
303.             gotoxy(5,20),printf("DID YOU KNOW? FAHRENHEIT...");
304.             gotoxy(5,21),printf("\tHaving a scale for measuring temperature on which the boiling point of \n");
305.             gotoxy(5,22),printf("water is at 212 degrees above zero and the freezing point is at 32 degrees \n");
306.             gotoxy(5,23),printf("above zero.\n");
307.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
308.             getch();
309.             system("cls");
310.             process();
311.     }
312.     /*=====*/
313.     //KELVIN
314.     else if(from==3){
315.         gotoxy(12,10),printf("Enter the amount of Kelvin: "), scanf("%f", &K);
316.         gotoxy(12,13),printf("\t[1] Celsius\n");
317.         gotoxy(12,14),printf("\t[2] Fahrenheit\n");
318.         gotoxy(12,15),printf("\t[3] Rankine\n");
319.         gotoxy(12,16),printf("\t[4] Reaumur\n");
320.         gotoxy(12,12),printf("Select the digit below of the unit of conversion: "); scanf("%d", &to);
321.         if(to==1){ //K-C
322.             C = K-273.15;
323.             gotoxy(12,18),printf("%.2f K is equal to %.2f C", K,C);
324.             goto Kelvin_Trivia;
325.         }
326.         else if(to==2){ //K-F
327.             F = (K*1.8) - 459.67;
328.             gotoxy(12,18),printf("%.2f K is equal to %.2f F", K,F);
329.             goto Kelvin_Trivia;
330.         }
331.         else if(to==3){ //K-Ra
332.             Ra = K*1.8;
333.             gotoxy(12,18),printf("%.2f K is equal to %.2f Ra", K,Ra);
334.             goto Kelvin_Trivia;
335.         }

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336.         }
337.         else if(to==4){ //K-Re
338.             Re = (K-273.15) * 0.8;
339.             gotoxy(12,18), printf("%.2f K is equal to %.2f Re", K,Re);
340.             goto Kelvin_Trivia;
341.         }
342.         else{
343.             gotoxy(12,18),printf("Your choice is not in the ranged of 1-4 ");
344.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
345.             getch();
346.             system("cls");
347.             process();
348.         }
349.         //KELVIN TRIVIA
350.         Kelvin_Trivia:
351.             gotoxy(5,20),printf("DID YOU KNOW? KELVIN...");
352.             gotoxy(5,21),printf("\tThe base unit of temperature in the International System of Units that is\n");
353.             gotoxy(5,22),printf("equal to 1/273.16 of the Kelvin scale temperature of the triple point of \n");
354.             gotoxy(5,23),printf("water.\n");
355.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
356.             getch();
357.             system("cls");
358.             process();
359.     }
360.     /*=====*/
361.     //RANKINE
362.     else if (from==4){
363.         gotoxy(12,10),printf("Enter the amount of Rankine: "), scanf("%f", &Ra);
364.         gotoxy(12,13),printf("\t[1] Celsius\n");
365.         gotoxy(12,14),printf("\t[2] Fahrenheit\n");
366.         gotoxy(12,15),printf("\t[3] Kelvin\n");
367.         gotoxy(12,16),printf("\t[4] Reaumur\n");
368.         gotoxy(12,12),printf("Select the digit below of the unit of conversion: "); scanf("%d", &to);
369.         if(to==1){ //Ra-C
370.             C = (Ra-32-459.67) / 1.8;
371.             gotoxy(12,18),printf("%.2f Ra is equal to %.2f C", Ra,C);
372.             goto Rankine_Trivia;
373.         }
374.         else if(to==2){ //Ra-F
375.             F = Ra-459.67;
376.             gotoxy(12,18),printf("%.2f Ra is equal to %.2f F", Ra,F);
377.             goto Rankine_Trivia;
378.         }
379.         else if(to==3){ //Ra-K
380.             K= Ra/1.8;
381.             gotoxy(12,18),printf("%.2f Ra is equal to %.2f K", Ra,K);
382.             goto Rankine_Trivia;
383.         }

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384.         else if(to==4){ //Ra-Re
385.             Re = (Ra-32-459.67)/2.25;
386.             gotoxy(12,18), printf("%.2f Ra is equal to %.2f Re", Ra,Re);
387.             goto Rankine_Trivia;
388.         }
389.         else{
390.             gotoxy(12,18),printf("Your choice is not in the ranged of 1-4 ");
391.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
392.             getch();
393.             system("cls");
394.             process();
395.         }
396.     //RANKINE TRIVIA
397.     Rankine_Trivia:
398.         gotoxy(5,20),printf("DID YOU KNOW? RANKINE...");
399.         gotoxy(5,21),printf("\tRelating to an absolute-temperature scale on which the unit of \n");
400.         gotoxy(5,22),printf("measurement equals a Fahrenheit degree and on which the freezing point of \n");
401.         gotoxy(5,23),printf("water is 491.67 degrees and the boiling point 671.67 degrees. \n");
402.         delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
403.         getch();
404.         system("cls");
405.         process();
406.
407.     }
408.     /*=====*/
409.     //REAUMUR
410.     else if(from==5){
411.
412.         gotoxy(12,10),printf("Enter the amount of Reaumur: "), scanf("%f", &Re);
413.         gotoxy(12,13),printf("\t[1] Celsius\n");
414.         gotoxy(12,14),printf("\t[2] Fahrenheit\n");
415.         gotoxy(12,15),printf("\t[3] Kelvin\n");
416.         gotoxy(12,16),printf("\t[4] Rankine\n");
417.         gotoxy(12,12),printf("Select the digit below of the unit of conversion: "); scanf("%d", &to);
418.         if(to==1){ //Re-C
419.             C = Re*1.25;
420.             gotoxy(12,18),printf("%.2f Re = %.2f C", Re,C);
421.             goto Reaumur_Trivia;
422.         }
423.         else if(to==2){ //Re-F
424.             F = (Re*2.25) + 32;
425.             gotoxy(12,18),printf("%.2f Re = %.2f F", Re,F);
426.             goto Reaumur_Trivia;
427.         }
428.         else if(to==3){ //Re-K
429.             K = (Re*1.25) + 273.15;
430.             gotoxy(12,18),printf("%.2f Re = %.2f K", Re,K);
431.             goto Reaumur_Trivia;

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432.         }
433.         else if(to==4){ //Re-K
434.             Ra = (Re*2.25)+ 32+ 459.67;
435.             gotoxy(12,18),printf("%.2f Re = %.2f Ra", Re,Ra);
436.             goto Reaumur_Trivia;
437.         }
438.         else{
439.             gotoxy(12,18),printf("Your choice is not in the ranged of 1-4 ");
440.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
441.             getch();
442.             system("cls");
443.             process();
444.         }
445.         //REAUMUR TRIVIA
446.         Reaumur_Trivia:
447.             gotoxy(5,20),printf("DID YOU KNOW? REAUMUR...");
448.             gotoxy(5,21),printf("\tRelating to a thermometric scale on which the boiling point of water is at\n");
449.             gotoxy(5,22),printf("80 degrees above the zero of the scale and the freezing point is at zero.\n");
450.             delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
451.             getch();
452.             system("cls");
453.             process();
454.     }
455.
456.     else if(from==6){
457.         system("cls");
458.         thanks();
459.     }
460.
461.
462.     else{
463.         gotoxy(12,10),printf("Invalid unit. Input must be ranged from 1-6");
464.         delay(20),gotoxy(30,28),printf("PRESS ANY KEY TO CONTINUE...");
465.         getch();
466.         system("cls");
467.         process();
468.     }
469.
470. }
471. /*=====
=====*/
472. //thanks method
473. int thanks(){
474.
475.     /*increment by 5*/
476.     for(r=1;r<=5;r++){
477.
478.         delay(50);

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479. //T1
480. gotoxy(r+10,1),printf("*");
481. gotoxy(13,r),printf("*");
482. //H1
483. gotoxy(17,r),printf("*");
484. gotoxy(16+r,3),printf("*");
485. gotoxy(21,r),printf("*");
486. //A1
487. gotoxy(23,r),printf("*");
488. gotoxy(22+r,1),printf("*");
489. gotoxy(22+r,3),printf("*");
490. gotoxy(27,r),printf("*");
491. //N1
492. gotoxy(29,r),printf("*");
493. gotoxy(28+r,r),printf("*");
494. gotoxy(33,r),printf("*");
495. //K1
496. gotoxy(35,r),printf("*");
497. //S1
498. gotoxy(39+r,1),printf("*");
499. gotoxy(39+r,3),printf("*");
500. gotoxy(39+r,5),printf("*");
501.
502. //A2
503. gotoxy(48,r),printf("*");
504. gotoxy(47+r,1),printf("*");
505. gotoxy(47+r,3),printf("*");
506. gotoxy(52,r),printf("*");
507. //N2
508. gotoxy(54,r),printf("*");
509. gotoxy(53+r,r),printf("*");
510. gotoxy(58,r),printf("*");
511. //D2
512. gotoxy(60,r),printf("*");
513.
514. //H3
515. gotoxy(2,6+r),printf("*");
516. gotoxy(r+1,9),printf("*");
517. gotoxy(6,6+r),printf("*");
518. //A3
519. gotoxy(8,6+r),printf("*");
520. gotoxy(r+7,7),printf("*");
521. gotoxy(r+7,9),printf("*");
522. gotoxy(12,6+r),printf("*");
523.
524. //E3
525. gotoxy(20,6+r),printf("*");
526. gotoxy(r+19,7),printf("*");

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```

527.         gotoxy(r+19,9),printf("*");
528.         gotoxy(r+19,11),printf("*");
529.
530.         //A4
531.         gotoxy(28,6+r),printf("*");
532.         gotoxy(r+27,7),printf("*");
533.         gotoxy(r+27,9),printf("*");
534.         gotoxy(32,6+r),printf("*");
535.
536.         //N5
537.         gotoxy(36,6+r),printf("*");
538.         gotoxy(35+r,6+r),printf("*");
539.         gotoxy(40,6+r),printf("*");
540.         //I5
541.         gotoxy(42,6+r),printf("*");
542.         //C5
543.         gotoxy(44,6+r),printf("*");
544.         gotoxy(r+43,7),printf("*");
545.         gotoxy(r+43,11),printf("*");
546.         //E5
547.         gotoxy(50,6+r),printf("*");
548.         gotoxy(r+49,7),printf("*");
549.         gotoxy(r+49,9),printf("*");
550.         gotoxy(r+49,11),printf("*");
551.
552.         //D6
553.         gotoxy(58,r+6),printf("*");
554.         //A6
555.         gotoxy(64,6+r),printf("*");
556.         gotoxy(r+63,7),printf("*");
557.         gotoxy(r+63,9),printf("*");
558.         gotoxy(68,6+r),printf("*");
559.     }
560.
561.     /*increment by 3x*/
562.     for(r=1;r<=3;r++){
563.         //K1
564.         gotoxy(35+r,4-r),printf("*");
565.         gotoxy(35+r,r+2),printf("*");
566.         //S1
567.         gotoxy(40,r),printf("*");
568.         gotoxy(44,r+2),printf("*");
569.         //D2
570.         gotoxy(59+r,1),printf("*");
571.         gotoxy(61+r,r),printf("*");
572.         gotoxy(61+r,6-r),printf("*");
573.         gotoxy(59+r,5),printf("*");
574.

```

```

575.         //V3
576.         gotoxy(14,6+r),printf( "*");
577.         gotoxy(13+r,8+r),printf( "*");
578.         gotoxy(19-r,8+r),printf( "*");
579.         gotoxy(18,6+r),printf( "*");
580.
581.         //D6
582.         gotoxy(57+r,7),printf( "*");
583.         gotoxy(59+r,6+r),printf( "*");
584.         gotoxy(59+r,12-r),printf( "*");
585.         gotoxy(57+r,11),printf( "*");
586.         //Y6
587.         gotoxy(69+r,6+r),printf( "*");
588.         gotoxy(71+r,10-r),printf( "*");
589.         gotoxy(72,8+r),printf( "*");
590.     }
591.
592.     exit(EXIT_SUCCESS); //this is an exit function, it terminates the whole program.
593.
594. }
595.

```