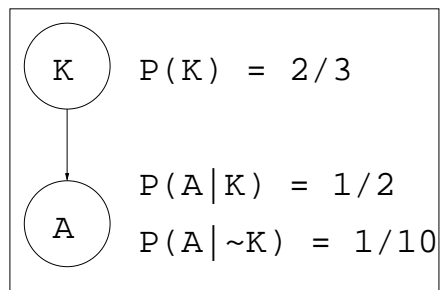


1. **Bayesian Network** (BN) is a directed acyclic graph (DAG) representing a joint probability distribution over a set of random variables.

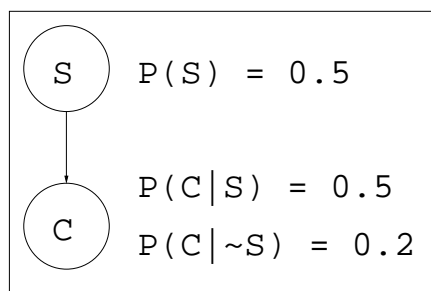
2. **Nodes** represent random variables, and **edges** represent conditional dependencies between them.



3. **Joint Probability Distribution** can be calculated using the BN structure and the conditional probability tables (CPTs) for each node.

4. **Inference** involves calculating the probability of a query given the evidence.

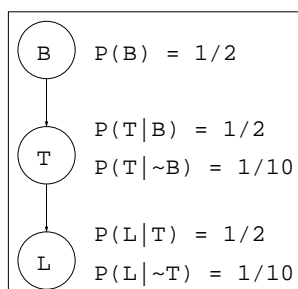
5. **Learning** involves discovering the BN structure from data.



6. **Applications** of BNs include medical diagnosis, spam filtering, and risk analysis.

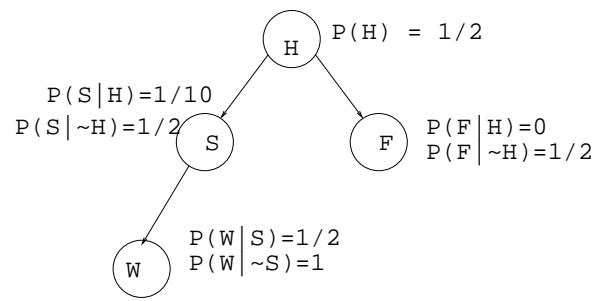
7. **Limitations** include the difficulty of learning the BN structure from data and the computational complexity of inference.

8. **Conclusion** BNs are a powerful tool for modeling and reasoning about uncertainty.



9. **Future Research** includes developing more efficient algorithms for learning and inference in BNs.

10. **References** include Pearl (1988) and Koller & Elzina (2001).



1. 在 2019 年 12 月 31 日，本公司对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

2.

3. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

- 4. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
- 5. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
- 6. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
- 7. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
- 8. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

9. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

10.

11. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

12. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

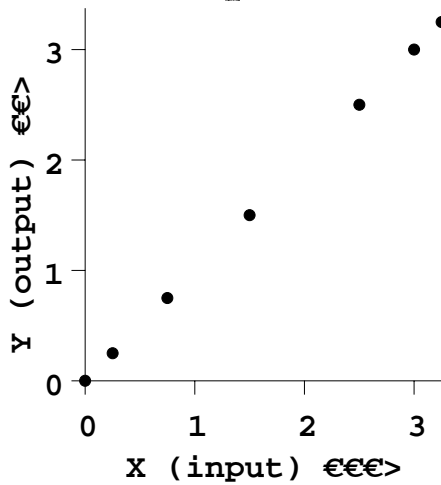
13. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

- 14. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
- 15. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
- 16. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。
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- 19. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

20. 本公司在 2019 年度财务报表中，对 2019 年度财务报表进行了审计，并出具了标准无保留意见的审计报告。

1. The first step is to identify the input and output variables. In this case, the input variable is 'X (input)' and the output variable is 'Y (output)'.

2. The next step is to plot the data points. The x-axis represents the input variable, and the y-axis represents the output variable. The data points are plotted as follows:



3. The third step is to identify the trend. The data points show a clear positive linear trend, indicating that as the input variable increases, the output variable also increases.

4.

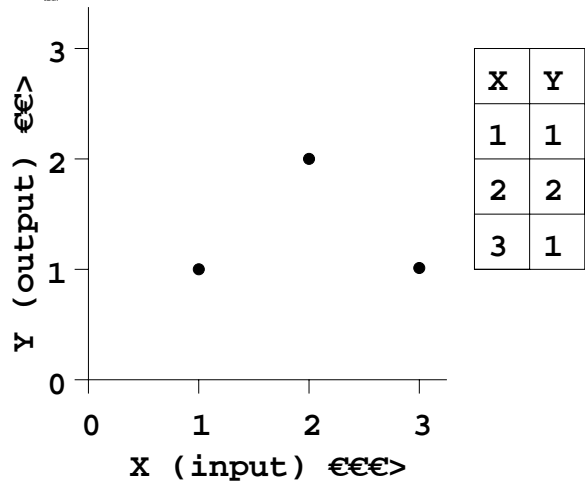
5. The fifth step is to identify the slope of the trend line. The slope of the trend line is 1, indicating that the output variable increases at the same rate as the input variable.

6.

7. The seventh step is to identify the intercept of the trend line. The intercept of the trend line is 0, indicating that the output variable is 0 when the input variable is 0.

8.

The following table shows the input-output pairs for the function f .



The function f is defined by the following table:

X	Y
1	1
2	2
3	1

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X	Y
1	1
2	2
3	1

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X	Y
1	1
2	2
3	1

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X	Y
1	1
2	2
3	1

Figure 1: Three plots showing the effect of the input x on the output y for different values of α .

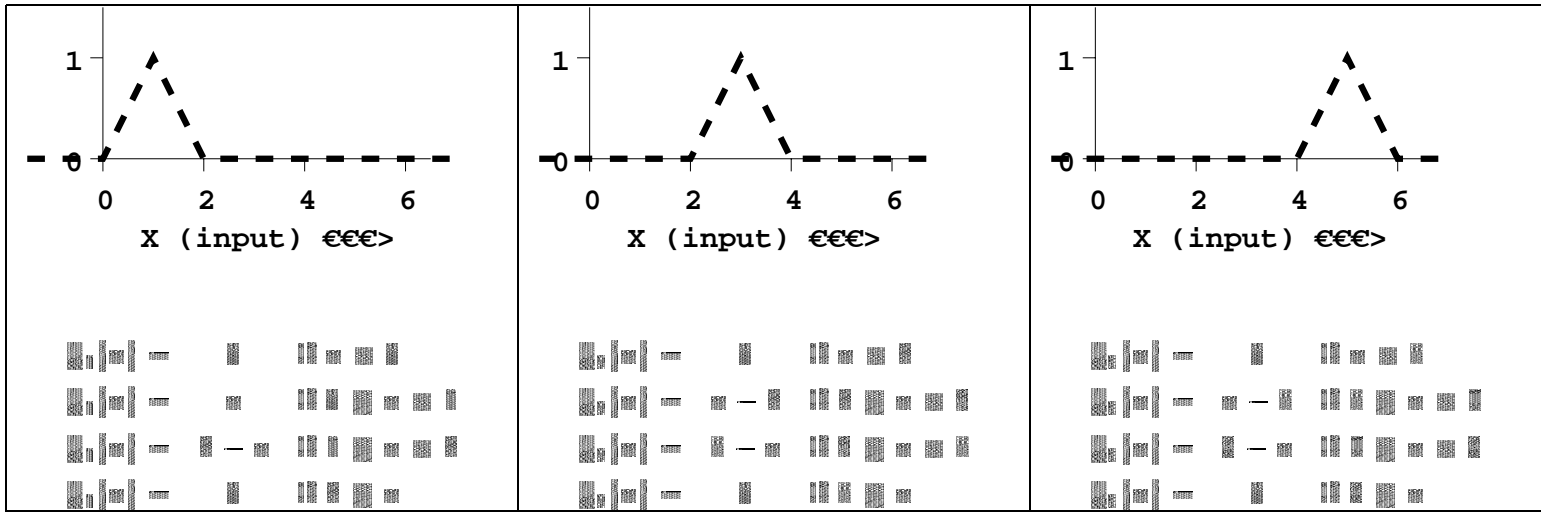


Figure 2: A plot showing the effect of the input x on the output y for different values of α .

Figure 2 shows a plot of $y(x)$ versus x for different values of α . The x-axis is labeled x and ranges from 0 to 6. The y-axis is labeled y and ranges from 0 to 1. The plot shows a triangular pulse function $y(x)$ with a peak of 1. The pulse is centered at $x=3$ and has a width of 2. The pulse is represented by a dashed line.

Figure 3

Figure 3 shows a plot of $y(x)$ versus x for different values of α . The x-axis is labeled x and ranges from 0 to 6. The y-axis is labeled y and ranges from 0 to 1. The plot shows a triangular pulse function $y(x)$ with a peak of 1. The pulse is centered at $x=3$ and has a width of 2. The pulse is represented by a dashed line.

1. The first part of the document discusses the importance of maintaining accurate records of all transactions and the role of the accounting department in ensuring the integrity of the financial statements.

2. The second part of the document outlines the various methods used to collect and analyze data, including the use of statistical software and the importance of sample size.

Figure 1: A scatter plot showing the relationship between X (input) and Y (output). The data points are clustered into three distinct groups, suggesting a non-linear relationship.

The scatter plot displays the relationship between X (input) and Y (output). The data points are clustered into three distinct groups, suggesting a non-linear relationship. The X-axis ranges from 0 to 3, and the Y-axis ranges from 0 to 3.

Figure 2: A scatter plot showing the relationship between X (input) and Y (output). The data points are clustered into three distinct groups, suggesting a non-linear relationship. The X-axis ranges from 0 to 3, and the Y-axis ranges from 0 to 3.

Figure 3: A scatter plot showing the relationship between X (input) and Y (output). The data points are clustered into three distinct groups, suggesting a non-linear relationship. The X-axis ranges from 0 to 3, and the Y-axis ranges from 0 to 3.

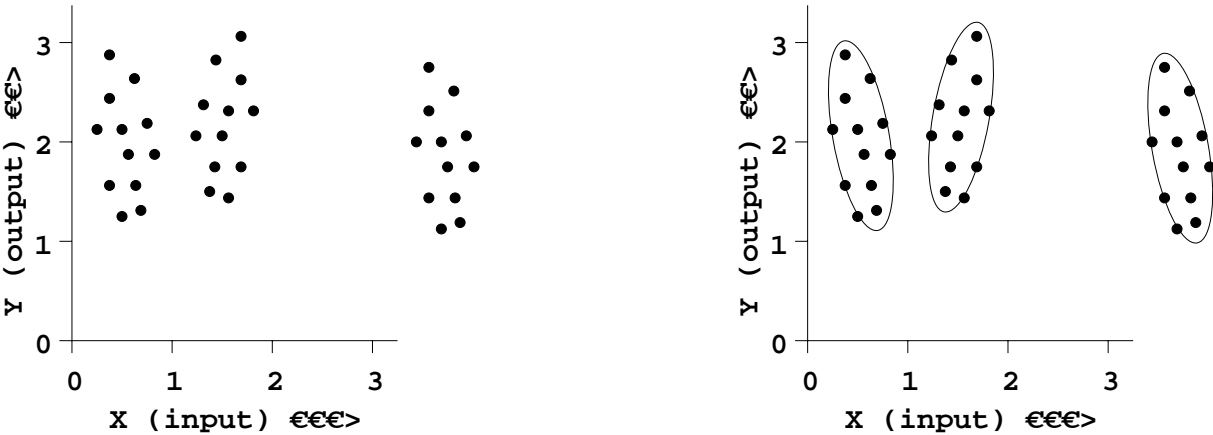
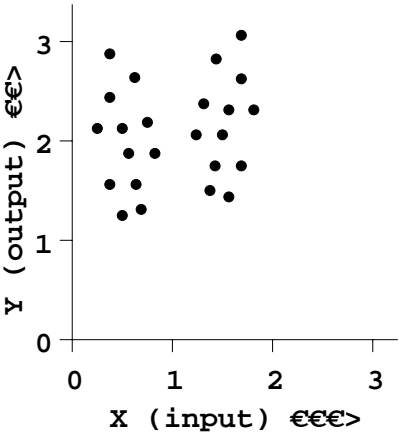
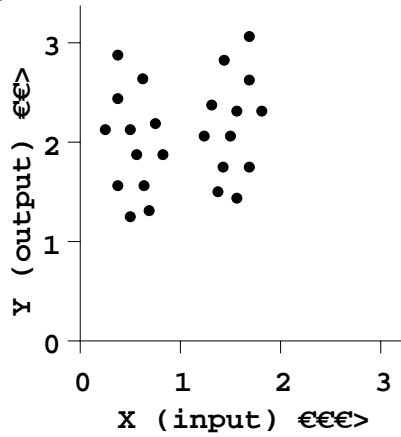


Figure 4: A scatter plot showing the relationship between X (input) and Y (output). The data points are clustered into three distinct groups, suggesting a non-linear relationship. The X-axis ranges from 0 to 3, and the Y-axis ranges from 0 to 3.



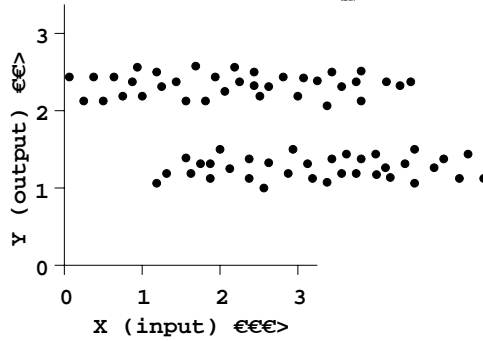
100%

100% of the data points are correctly classified by the model. This indicates that the model is highly accurate and effective in distinguishing between the two classes. The high accuracy suggests that the model has learned the underlying patterns in the data well.



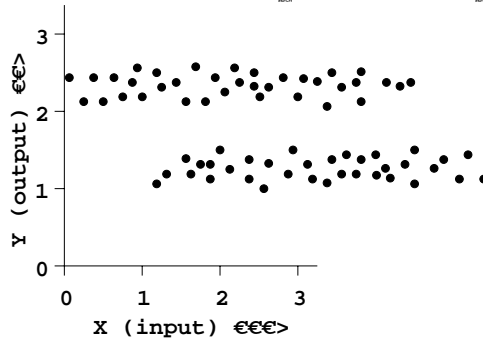
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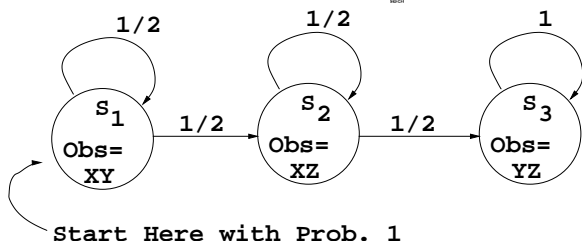
100%

100% of the data points are correctly classified by the model. This indicates that the model is highly accurate and effective in distinguishing between the two classes. The high accuracy suggests that the model has learned the underlying patterns in the data well.



The following table shows the possible states of the system at each time step, along with the probability of each state occurring.

The first column shows the state of the system at time t , the second column shows the state of the system at time $t+1$, and the third column shows the probability of each state occurring.



State	s_1	s_2	s_3
Obs	XY	XZ	YZ
Prob	$\frac{1}{2}$	$\frac{1}{2}$	1

The following table shows the possible states of the system at each time step, along with the probability of each state occurring.

$$\begin{aligned}
 &P(s_1, t+1) = P(s_1, t) \cdot \frac{1}{2} + P(s_2, t) \cdot \frac{1}{2} \\
 &P(s_2, t+1) = P(s_1, t) \cdot \frac{1}{2} + P(s_2, t) \cdot \frac{1}{2} \\
 &P(s_3, t+1) = P(s_2, t) \cdot \frac{1}{2} + P(s_3, t) \cdot 1
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Prob	$\frac{1}{2}$	$\frac{1}{2}$	1
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Obs	XY	XZ	YZ
Prob	$\frac{1}{2}$	$\frac{1}{2}$	1
State	s_1	s_2	s_3
Obs	XY	XZ	YZ
Prob	$\frac{1}{2}$	$\frac{1}{2}$	1
State	s_1	s_2	s_3
Obs	XY	XZ	YZ
Prob	$\frac{1}{2}$	$\frac{1}{2}$	1

Второй шаг — это определение того, какие именно ресурсы являются критическими. Для этого необходимо провести анализ зависимости между задачами и ресурсами. Если ресурс используется в нескольких задачах, то он является критическим.

Третий шаг — это определение того, какие именно ресурсы являются дефицитными. Для этого необходимо провести анализ зависимости между задачами и ресурсами. Если ресурс используется в нескольких задачах, то он является дефицитным.

Четвертый шаг — это определение того, какие именно ресурсы являются избыточными. Для этого необходимо провести анализ зависимости между задачами и ресурсами. Если ресурс используется в нескольких задачах, то он является избыточным.

Второй шаг — это определение того, какие именно ресурсы являются критическими.

Третий шаг — это определение того, какие именно ресурсы являются дефицитными.

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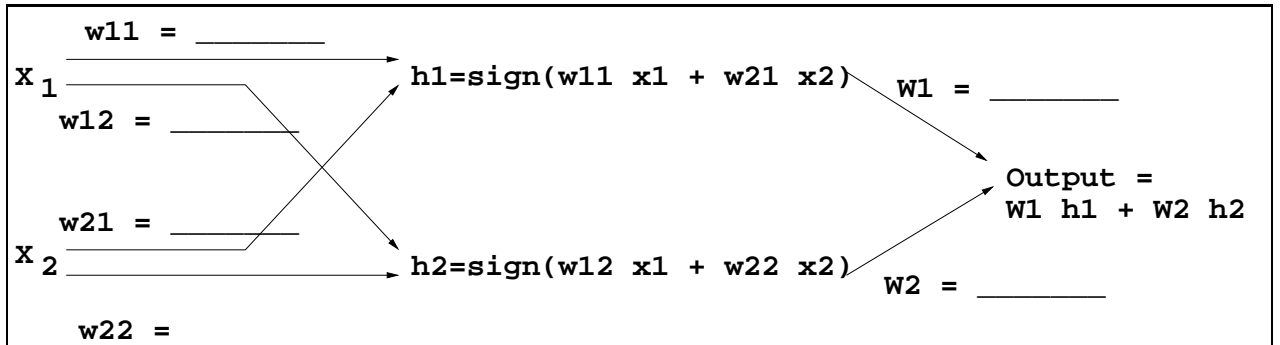
Третий шаг — это определение того, какие именно ресурсы являются дефицитными.

QUESTION

Consider the following neural network structure. The input layer has two nodes, x_1 and x_2 . The hidden layer has two nodes, h_1 and h_2 . The output layer has one node, $Output$. The weights are given as follows:

$w_{11} = 1$, $w_{12} = 1$, $w_{21} = 1$, $w_{22} = 1$

$w_{13} = 1$, $w_{23} = 1$



For the given input values, calculate the output of the neural network. The input values are $x_1 = 1$ and $x_2 = 1$. The output values are h_1 and h_2 .

x_1	x_2	h_1	h_2
1	1	1	1
1	0	1	0
0	1	0	1
0	0	0	0

For the given input values, calculate the output of the neural network. The input values are $x_1 = 1$ and $x_2 = 1$. The output values are h_1 and h_2 .

ANSWER

For the given input values, calculate the output of the neural network. The input values are $x_1 = 1$ and $x_2 = 1$. The output values are h_1 and h_2 .

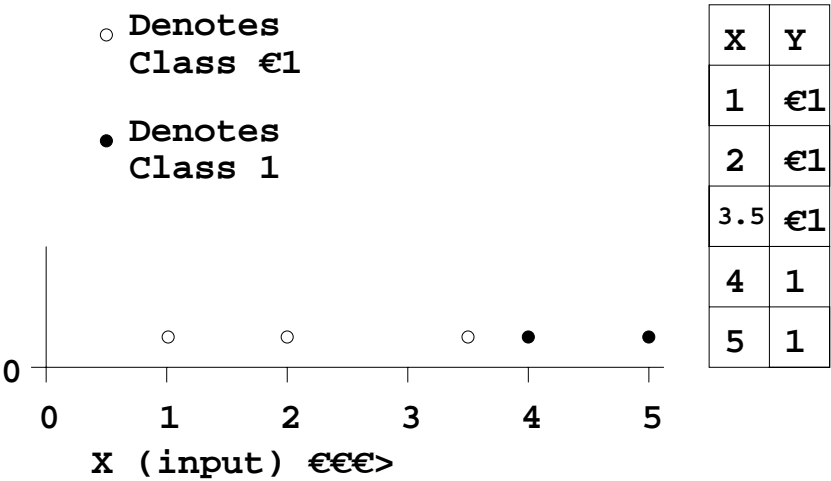
$h_1 = 1$, $h_2 = 1$

For the given input values, calculate the output of the neural network. The input values are $x_1 = 1$ and $x_2 = 1$. The output values are h_1 and h_2 .

For the given input values, calculate the output of the neural network. The input values are $x_1 = 1$ and $x_2 = 1$. The output values are h_1 and h_2 .

The following table shows the data points for the two classes.

The data points are plotted on a graph. The x-axis represents the input feature X (input) and the y-axis represents the output feature Y . The legend indicates that open circles represent Class €1 and filled circles represent Class 1.



The following table shows the data points for the two classes.

The data points are plotted on a graph.

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The following table shows the number of people who have been convicted of a crime in the last 10 years, broken down by age group and gender. The data is presented in a table with 3 columns: Age Group, Gender, and Number of Convictions. The rows are grouped by age group, with the first row in each group showing the total number of convictions for that age group.

Age Group	Gender	Number of Convictions
18-24	Male	120
	Female	80
25-34	Male	150
	Female	100
35-44	Male	180
	Female	120
45-54	Male	200
	Female	140
55-64	Male	220
	Female	160
65-74	Male	240
	Female	180
75-84	Male	260
	Female	200
85-94	Male	280
	Female	220
95-104	Male	300
	Female	240
105-114	Male	320
	Female	260
115-124	Male	340
	Female	280
125-134	Male	360
	Female	300
135-144	Male	380
	Female	320
145-154	Male	400
	Female	340
155-164	Male	420
	Female	360
165-174	Male	440
	Female	380
175-184	Male	460
	Female	400
185-194	Male	480
	Female	420
195-204	Male	500
	Female	440
205-214	Male	520
	Female	460
215-224	Male	540
	Female	480
225-234	Male	560
	Female	500
235-244	Male	580
	Female	520
245-254	Male	600
	Female	540
255-264	Male	620
	Female	560
265-274	Male	640
	Female	580
275-284	Male	660
	Female	600
285-294	Male	680
	Female	620
295-304	Male	700
	Female	640
305-314	Male	720
	Female	660
315-324	Male	740
	Female	680
325-334	Male	760
	Female	700
335-344	Male	780
	Female	720
345-354	Male	800
	Female	740
355-364	Male	820
	Female	760
365-374	Male	840
	Female	780
375-384	Male	860
	Female	800
385-394	Male	880
	Female	820
395-404	Male	900
	Female	840
405-414	Male	920
	Female	860
415-424	Male	940
	Female	880
425-434	Male	960
	Female	900
435-444	Male	980
	Female	920
445-454	Male	1000
	Female	940
455-464	Male	1020
	Female	960
465-474	Male	1040
	Female	980
475-484	Male	1060
	Female	1000
485-494	Male	1080
	Female	1020
495-504	Male	1100
	Female	1040
505-514	Male	1120
	Female	1060
515-524	Male	1140
	Female	

