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47.+57+.\$%.\*7\*.30#\*:%=\$%>6"712.3%" .5807%57#\*\$%)'9%04%"#::%  
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3\*44",\* '>=98\*%:011\*.\*#5\*%=\*7/\*\*#%78\*%7".,\*79%78\*%03",0#".\$9%#:%78\*%  
"57+"6%" +:0\*#5\*%/2+6:%"66%.\*3"0#%2=45+.\*%72%78\*%.\*"42#"=6\*%.\*":.%?8\*%  
1"57%78"7%"%.\*"42#"=6\*% ,87%8"40+3\*%78"7%Y8\*\*6\*.%:2\*4%8";\*%





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EV% & (.#-\*/&( %  
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?804%" .7056\*%0:4780\*10%58".57\*.047054%21%78\*%:0,07"6%" +:0\*#5\*^%  
"+:0\*#5\*%" , #5\$9%" +:0\*#5\*%2=45+.07\$9%" #: "% +:0\*#5\*%:04625"702#9%/8058%  
E% ".,+\*% ".\*%03>2.7"#7%52#40:\*."702#4%0#%78\*%6\*,"6%"#"6\$4\*4%21%2#60#\*%  
4>\*\*58%5.03\*4%?8\*4\*%52#5\*>74%" .%#\*078\*.%7"@2#2305"6%#2.\*%@"8"+470;\*] %  
78\*\$% ".\*% ,\*#."60Z\*:% >.2>\*.70\*4% 78"7% >.2;0\*% 0#40,874% 0#72% 2#60#\*%  
6"#,+ ,\*%>."5705\*4%"#: %78\*0.%0#7\*."5271702#"9%6\*4%21%\*@"0470#,%  
">.2"58\*4%72%4>\*\*58%5.03\*4%1.23%:011\*.\*#7%A+.04:05702#4%78"7%" .%#27%  
/\*66CK+0>>.\*:%72%:\*"6%/078%"#%" , #70,99%2=4504625"7\*:%:0,07"6%  
"+:0\*#5\*9% 066+47."70#,% 82/% :0,07"60Z"702#% "#:% 78\*% 52..\*4>2#0#,%  
58"# ,4%0#%2+.%5233+#05"70;.\*#;0.2#3\*#7%58"66\*# ,\*%6\*,"6%.\* ,+6"702#%  
21%4>\*\*58%42%>.2;0%5233\*#:"702#4%2.82/%6"/4%52+6:%48".>#%  
78\*0.%52#7\*@"7%4\*#4074027\$9%87%2# ,\*%">.\*50"702#%21%78\*4\*%  
"+:0\*#5\*%58".57\*.047054'

?8\*%78.\*\*%=.2":%7\$>\*4%21%5.03\*4%78"7%52+6:%=\*%5233077\*:%78.2+,8%  
6"#,+ ,\*%8";\*%=#\*%52,\*.\*:'%Y.077\*#%/073215%5233+#05"702#%  
0#%30#9%>+=605%2.\*%211\*#4\*4%"03%72%>.27#52#7878%\*:\*47.0"  
47.\*\*7%/82%04%4825B\*:% "#:% :04,+47\*:%=\$%211\*#40;\*"574%78\*\$% :2%#27%  
\*@">\*57%72%523\*% "5.244%0#%>+=605%4>"5\*4%'D#\*%21%78\*%58"66\*# ,4%21  
7."#4>240#,%78\*4\*%6"/4%72%2#60#\*%4>\*\*58%04%"#%"570,\*%" +:0\*#5\*%/82%  
5"##27%=\*%52#40:\*.\*%"550:\*#7"6%2;\*.8"\*.4"0#2#408\*%26\*%21%  
0#7\*.3\*:0".0\*4%0#%:044\*30#"706;#\*4\*:%52#7\*#79%>+=605%2.\*%  
211\*#4\*4%/0782+7%"#%" +:0\*#5\*% 2.%4>\*50105%0#7\*#7% .K+0.\*3\*#7%04%  
:"# ,.2+46\$% \*#523>"440#,%0#%78\*% :0,07"6%\*."%"?8\*%=.2":%452>\*%21%  
8".443\*#7%"#: %47"6B0#,%04%40386#6\$%8%52+>6\*:%/078%"%  
.6"@\*:% +#:\*.47"#:0#,% 21% 5233+#05"702#9% /8058% \*#523>"44\*4%  
.5B6\*44#\*44%"=2+7%" +:0\*#5\*% ."58'E#%>".705+6".9%" +:0\*#5\*% " ,\*#5\$%  
4\*\*34%72%=\*%0#523>"70=6\*%/078%7."0:0702#"6%52#5\*>702#4%21%47"6B0# ,9%  
/8\*.\*%78\*%>\*.42#%=\*0#,%47"6B\*:%.524%#27%72%.\*5\*0;0#,%78\*%  
47"6B\*.14%5233+#05"702#% Y806\*%78\*.\*%04%"%4+=47"70"6%"32+#7%21%  
"=+40;\*%2#60#\*%4>\*\*58%78"7%482+6:%=\*%:0452+." ,\*%9%32.\*%#"..2/6\$%

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>27\*#70"6%" +:0\*#5\*%E7%04%#27%>.2:+570;\*%72%403>6\$%"55\*>7%78"7%52#7\*  
8"4%5266">4\*:470#9%32.\*%#+"#5\*:9%52#7\* @7+"6%"#"6\$4\*4%04%#\*\*:%72%  
"44\*44%78\*%#"7+.\*%21%78\*%5266">4\*%"#:8"7%78"7%3"\$%0#12.3%+4%"=2+7%  
5233+#05"70;\*% 0#7\*#702#4%' d2.\*2;\*.9% "+:0\*#5\*% :04625"702#% 8"4%  
:\*\*>#\*:% 78\*% 52#7\* @7+"6% , ">% =\*7/\*\*%#% 4+=A\*570;\*% ;\*.4+4% 2=A\*570;\*%  
47"#: ".4%"#: 4>\*B\*.% ;\*.4+4% .50>0\*#7% ;"#7",\*% >20#7% 0#% 78\*%  
:\*7\*.30#"702#% 21% 5.030#"6% 0#7\*#702#"607\$9% "#:% 07% 04% 4+=3077\*:% 78"7% "  
4+=A\*570;\*% 47"#: ".% 1.23% 78\*% 4>\*B\*.4% ;"#7",\*% >20#7% 482+6:% =\*%  
":2>7\*:%"4%78\*%="404%12.%5.030#76%60"=0607\$'  
E7%/2+6:%=\*%+#1"0.7827%459%74%8";\*% =\*\*%#%+#"/".\*% 21% 78\*%  
52#7\* @7+"6%480174%80,860,87\*:%0#%7804%" .7056\*%E#%1"579%78\*%5"4\*%6"/%4  
78"7%52+.74%" .%#27%=60#:%72%7\*58#262,05"6%";"#5\*4]3#\$%A+;\*.4%0#%2+.%  
\* @3>6\*4% 8",\*% 0:\*#7010\*:% 56"48\*4% =\*7/\*\*%#% "+:0\*#5\*% "44+3>702#4% 0#%  
\* @0470#6"/4%"#: "+:0\*#5\*%58".57\*.047054%0#%78\*%5"4\*%0#%1.2#7%21%78\*3'%  
N#12.7+#7\*6\$% 12.% 78\*% A+;\*.49% ">>6\$0#,% 6"/4% 3":\*% :+.0#,% 78\*% 3"44%  
5233+#05"702#% \*."% 72% 2#60#\*% 5233+#05"702#% 04% 423\*703\*4% "B0#% 72%  
#"060#,% "%4K+ ".\*%>\*,%0#% "%2+#:%826\*%E#%4236\$%:4569%878\*\$%403>  
K+07\*%0,876\$%78"7%78\*%6"/%:2\*4%#27%107%'d2.\*2;\*.9%"/".\*#\*44%:2\*4%#27%  
\*K+"7\*%72% 4+11050\*#7%+#\* .47"#:0#,% 78"7% 04%.\*K+0.\*:% 0#% 78\*% 4\* ".58% 12.%  
52#5\*>7+"6% 72264%78"7% "662/%0#7\* .>.\*70;\*% 52#4047\*#5\$% "#:% 12.%/"\$4%21%  
":>70#,% 0#7\* .>.\*70;\*% ">>.2"58\*48\*78\*\$% ".\*% 52#74070;\*%  
\*#2+,8%72%#27%=\*%2;\*.6\$%#" ..2/%2.%=.2":%L+58%+#\* .47"#:0#,% 3"\$%=%\*  
\*#8"#5\*:%=\$%0#7\* .:0450>60#" .\$/2.B%78"7%\* @30#\*4%"44+3>702#4%0#%6\*,"6%  
>.0#50>6\*4% "#:% "44\*44\*4% 78\*0.% \*3>0.05"6% ,.2+#:0#,% 0#% 2+.% 58"#,0#,%  
4250"6% /2.6:9% 4+584250"6% 450\*#70105% "#6\$4\*4% 21% 2#60#\*%  
5233+#05"702#%066+47."7\*:%0#% 7804%" .7056\*%l:3077\*:.6\$9%48".>\*#0#,% 78\*%  
52#7\* @7% 4\*#4070;07\$% 21% 6\*,"6% 0#7\* .>.\*7"702#% /2+6:% #27% 426,\*% "66% 78\*  
>.2=6\*34]7"5B60#,%423\*%21%78\*%8".34%78"7%#2/%1"66%2+740:\*%78\*%6"/%3"\$%  
"642% .\*K.#% 6\*,046"70;\*% 3\*\*4+.\*4% 2.9% 0#5.\*"40#,6\$% 1.\*K+\*#76\$9%  
\* @7."A+:050"6% 426+702#4% 0#% 5266"=2."702#% /078%877%3\*:0".0\*4'  
4"0:9%78\*4\*%3\*\*4+.\*4%.\*K+0.\*6524070,7%7"062.0#,%A+47%"4%3+58'  
14%g.\*\*#"/"67%"#: %V262B8%8";\*%=278%\*3>8"40Z\*:9%>+=605%4>\*\*58%

:23"0#9% "5523>"#0\*:% =\$% 4\*\*30#,6\$% 03>2,\*.048\*:% 52#7% @7% J  
 782+,8%/\*\*%3"\$%#27%4+=A\*570,\*6\$%1\*\*6%78"7%/ "\$9%4>\*\*58%/\*\*%3"B\*%2#60#\*%  
 04%217\*#%52#40:\*.\*:%>+=605'%?2%\*#4+.\*%78"7%:0,07"60Z"702#%:2\*4%#27%6\*\*:%  
 72% 78\*% \* @>6207"702#% 2.% A\*2>".:\$% 21% 2+.% 4>\*\*58% 1.\*\*:2349% 78\*% 6\*,"6%  
 .\*,+6"702#%21%2#60#\*%4>\*\*58%. \*K+0.\*3!705%#>6\$4\*4%'E#%"66%78\*%  
 5"4\*4%:045+44\*:%0#%7804% ".7056\*9%+#5\*.7"0#70\*4%0#%3\*\*#0#,%:0:%#27% ".04\*  
 1.23%4\*3"#705%0#:\*7\*.30#"5\$%4+58%"4%6\* @05"6%"3=0,+07\$%2.%;",+\*#\*44%  
 E#47\*\*:%9%:04>+7\*4%0#%3\*\*#0#,%255+..\*:% "7%78\*%>.",3"705%6\*;\*69%/8058%  
 :.\*>#\*:4%2#%52#7\* @7"6\$4\*4%'l%/0:\*%."#, %21%" +:0\*#5\*%7\$>\*4\* @047%  
 0#% 2#60#\*% 5233+#05"702#9%/82% 3"\$% :."/0#1\*.\*#5\*4% "=2+7% 4>\*B\*.%  
 3\*\*#0#,%#%:0#7\*#702#%="4\*:%2#%:011\*.\*#7%52#7\* @7+"6%0#12.3"702#%78\*\$%  
 8",\*%`\*,+6"702#%21%2#60#\*%4>\*\*58%#\*\*:%4%72%=%\*# "2/6\$%7"062.\*:%#\*%  
 482/%4\*#070;07\$%72%" +:0\*#5\*%58% ".57\*.0470549%"#:78\*%2#\*4%0\*#7010\*:%0#%  
 7804% ".7056\*% ".\*% "% 47".70#,% >20#7% l4% "+:0\*#5\*% 04% 2#6\$% 2#\*% 21% 3"#9%  
 52#7\* @7+"6% 480174% 78"7% 255+..\*:% "4% 8+3"#% 5233+#05"702#% =\*523\*4%  
 0#5.\*"40#,6\$%:0,07"60Z\*:9%1+.78\*.%/2.B%04%#\*\*:\*#872#6\$7#701\$%  
 278\*.%52#7\* @7+"66\$%4"60\*#78%1\*7+.\*4'

?804% 6\*\*:%4% 3\*% 72% "% #27\*% "=2+7% 3\*782:262,\$'% E7% 04% >\*.8">4% #27%  
 4+>.040#,%78"7%78\*.\*%04%#2%40#,+6".%78\*2.\$% "=2+7%5233+#05"702#%0#%6"/9%  
 \*,\*#% /0780#% 2#\*% A+.04:05702#% ?804% 04% >\*.8">4% #\*5\*4407"7\*:% =\$% 78\*%  
 :0;.,# 7% 2=A\*570;\*4% 0#% :011\*.\*#7% ".\*4% 21% 6"/% D#\*% "#6\$705"6%  
 52#4\*K+\*#5\*% 04% 78"7% 07% 04% "63247% 03>2440=6\*% 12.% "#% 0#7\* :.0450>60#".  
 45826".%72%5.070K+\*%6\*,"6% "44+3>702#4%"=2+7%5233+#05"702#%0#%=.2":%  
 47.2B\*4%'J;\*#%/078%78\*%"#"6\$705"6%52#5\*>74%>.2>279%607#07864% ".705  
 :01105+67%72%B#2/%82/%+4\*1+6%78\*\$% ".\*%12%\*"58%7\$>\*%21%5.03\*%/0782+7%  
 5".\*1+6% .\*;0\*/% 21% "44+3>702#4% 0#% @>50:05%2#\*% 5.03\*  
 4>\*50105% 6\*,"6% "#6\$404%' E#% 78\*% /2.B% .\*>2.7\*:% 8\*.\*9% 07% 04% 2#6\$% "17\*.  
 0#523>"70=06070\*4% ".\*%0:\*#70104#78795702#"6%523>".042#4%  
 =\*523\*% 3\*\*#0#,1+6%' ?8\*% .5233\*#:"702#4% 3":\*% 0#% 7804% ".7056\*% ".\*%  
 "552:.0#,6\$%K+07\*%4>\*50105%72%\*"58%7\$>\*%21%5.03\*%"#"6\$Z\*:9\*;\*#%782+,8%  
 78\*.\*% 04% #2% .\*"42#%/8\$% 7804% 7\$>\*% 21% 52#7\* @7%"#"6\$404% 52+6:% #27%  
 52#:+57\*:%0#%"%4030812#%12.278\*.%6"#,+",\*%5.03\*4'

-0470660#,%1.23%78\*%"#"6\$705"6%/2.B%:2#\*%0#%7804% ".7056\*9% E#52#A\*57+  
 78"7% 78\*% 12662/0#,% 0#40,874% 3"\$% =\*% ,\*#."66\$%">>605"=6\*% 72% 78\*% 6\*,"6%  
 "#6\$4\*4%21%6"#,+",\*%5.03\*4%0#%"#\$%A+.04:05702#%'g0;\*#%78\*%>.2601\*."702#%  
 21%>+=60565\*440=6\*% 52#7\*#7% "#:% 78\*% "5523>"#0\*:%>8\*#23\*#2#% 21%  
 "+:0\*#5\*% 2=45+.07\$9% 07% 04% 32.\*% 03>2.7"#7% 78"#% \*;.\*% 72% :011\*.\*#70"7\*%  
 =7/\*\*#% "+:0\*#5\*% 7\$>\*49%0#56+:0#,%7".,7%" +:0\*#5\*9% "57+"6%" +:0\*#5\*9%  
 "#:% >27\*#70"6% "+:0\*#5\*9% 0#% "44\*440#,% 5.030#"6% 0#7\*#702#"607\$%'

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l:3 077\*:6\$9%4+58%:011\*.\*#70"702#%04%#27%"6/"\$4%\*"4\$'%&2/\*;\*.9%4>\*"B\*.%  
0:\*#707\$9% 6"#,+,"% +4\*9% ,,2+>% 2.% 2.,"#0Z"702#"6% 47\$6\*9% \*>047\*305%  
>.\*4+3>702#49% \* @>.\*4402#4%21%0#703"5\$%2.%4260:".07\$9% "#:%3".B\*.4%21%  
>2/\*.%:\$#"3054%:2%211\*.%423\*%5+\*4]|%>.\*;02+4%5234205"782%  
4"3\*%>6"712.3%"642%>.2;0:\*% "%.\*1\*.\*#5\*!672047%"642%03>2.7"#7%72%  
"44\*44%78\*% \* @7\*#7%72%/8058%"+:0\*#5\*%58"."57\*.047054%a\*!'9%",\*#5\$b%2#%  
:0,07"6%3\*:0"%.\*%523>"70=6\*%/078%78\*%8".3%78"7%78\*%6\*,046"702#%7.0\*4%72%  
>.\*;#7% E#% "::0702#9% "%04625"702#% 0#% 2#60#\*% 5233+#05"702#%

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5233+#05"702#9% 78\*% 32.\*% #4 "78\*% 52..\*4>2#:0#,% 52#7\* @7+"6%

"#6\$404%482+6%#=#'

?804% ".7056\*%:2\*4%#27% ".;25"7\*% 12.%70,87\*.%2.%6224\*.%.\*,+6"702#%21%

2#60#\*% 4>\*\*58'% ?8\*% )"/% (23304402#% aN'e'b% 8"4% 52#G-57\*:% "% 40@

32#78% 47+:.\$% 72% 4\*\*%/8\*78\*.% "="+40;\*% "#:% 211\*#40;\*% =\*8";02.% 78"7% 04%